



**GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT**

**STANDARD SCHEDULE OF RATES
[FOR BASIC ITEMS ONLY]**

BASIC RATES (EXCLUDING GST & OTHER TAXES)

2020-2021

[WITH EFFECT FROM 20.04.2020]



**GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT**

**OFFICE OF THE ENGINEER-IN-CHIEF, WRD &
CHIEF ENGINEER (GENERAL), PWD, CHEPAUK, CHENNAI-5.**

**Present: Er. K. Ramamoorthy, B.E., MBA.,
Engineer-in-Chief, WRD &
Chief Engineer (General), PWD.**

Proc. No. HDO / Sr. DO-2 / SSR 2020-21 / 20021 / 2020-1, dated 20.04.2020

Sub: Public Works Department – **Standard Schedule of Rates with Basic Rates for the year 2020-2021** for adoption in preparation of estimates with effect from **20.04.2020** – Approved – Communication of – Regarding.

Ref: Engineer-in-Chief, WRD & Chief Engineer (General), PWD, Chennai-5, Proceedings No. HDO / Sr.DO-2 / SSR 2019-20 / 19020 / 2018-1, dated 17.06.2019.

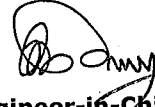
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The Standard Schedule of Rates with Basic Rates, Basic Cost of Cement and Basic Cost of Steel (excluding all taxes and GST) approved for the year **2020-2021** by the Schedule of Rates Committee for adoption in the preparation of estimates **with effect from 20.04.2020** are herewith enclosed for taking necessary action.

2.0. The receipt of Standard Schedule of Rates with Basic Rates for the year 2020-2021 along with its enclosures may be acknowledged.

Encl.:

Standard Schedule of Rates
with Basic Rates, 2020-2021-1 Booklet


**Engineer-in-Chief, WRD &
Chief Engineer (General), PWD,
Chennai-5 (Member)**

To

1. The Engineer-in-Chief (Buildings) & Chief Engineer (Buildings), Chennai Region, Chennai-5.
2. The Director General, Highways Department, 76, Sardar Patel Road, Guindy, Chennai-25.
3. The Chief Engineer, WRD, Design Research and Construction Support, Chennai-5.
4. The Joint Secretary to Government, Finance Department, Secretariat, Chennai-9.

Copy to all the Chief Engineers of Water Resources Department.

Copy to the Chief Engineer (Buildings), PWD, Trichy Region, Trichy.

Copy to the Chief Engineer (Buildings), PWD, Madurai Region, Madurai.

Copy to all the Superintending Engineers of WRD Circles.

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Copy to the Chief Engineer, Tamil Nadu Housing Board, Nandanam, Chennai-35.

Copy to Chief Engineer (Civil Design), Tamil Nadu Slum Clearance Board, Chennai.

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Copy to the Chief Engineer, PWD, Fishing Harbour Project Circle, DMS Compound, Chennai-6.

Copy to the Chief Engineer, Tamil Nadu State Police Housing Corporation, Chennai

Copy to the Joint Chief Engineer (General), PWD, Chennai-5.

Copy to the Joint Chief Engineer (Buildings), PWD, Chennai-5.

Copy to the Joint Chief Engineer (Irrigation), PWD, Chennai-5.

Copy to the Superintending Engineer, PWD, Planning and Designs Circle, Chennai-5.

Copy to the Deputy Chief Engineer (Buildings), PWD, Chennai-5.

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**GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT**

**OFFICE OF THE ENGINEER-IN-CHIEF, WRD &
CHIEF ENGINEER (GENERAL), PWD, CHEPAUK, CHENNAI-5.**

**Present: Er. K. Ramamoorthy, B.E., MBA.,
Engineer-in-Chief, WRD &
Chief Engineer (General), PWD. (I/c)**

Proc. No. HDO / Sr. DO-2 / SSR 2020-21 / 20021 / 2020-2, dated 20.04.2020

Sub: Steel – Basic Cost for **STEEL** for adoption in the preparation of estimates during the year **2020-2021** with effect from **20.04.2020** – Approved – Communication of – Regarding.

Ref: Engineer-in-Chief, WRD & Chief Engineer (General), PWD, Chennai-5, Proceedings No. HDO / Sr.DO-2 / SSR 2019-20 / 19020 / 2018-2, dated 17.06.2019.




The **Basic Cost of Steel (excluding all taxes and GST)** for the year 2020-2021 approved by the Schedule of Rates Committee for adoption in the preparation of estimates during the year 2020-2021 **with effect from 20.04.2020** is given below:

Steel : Rs.45,000/- per MT
(Rupees Forty Five Thousand only)

2.0. The above rate is excluding of all taxes & GST, freight charges, etc., at Stockyard / Dealer's Godown. Necessary lead charges (i.e. excluding loading and unloading charges), as applicable as per conveyance table, may be allowed from the Stockyard / Dealer's Godown to the site of work, if duly certified by an officer not below the rank of Assistant Executive Engineer.

3.0. However, in the case, if the source is specified as "Stockyard", the same shall be decided and approved by the Superintending Engineers concerned.


**Engineer-in-Chief, WRD &
Chief Engineer (General), PWD,
Chennai-5 (Member)**

To

1. The Engineer-in-Chief (Buildings) & Chief Engineer (Buildings), Chennai Region, Chennai-5
2. The Director General, Highways Department, 76, Sardar Patel Road, Guindy, Chennai-25.
3. The Chief Engineer, WRD, Design Research and Construction Support, Chennai-5.
4. The Joint Secretary to Government, Finance Department, Secretariat, Chennai-9.

Copy to all the Chief Engineers of Water Resources Department.

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Copy to the Chief Engineer (Buildings), PWD, Madurai Region, Madurai.

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Copy to the Chief Engineer, Tamil Nadu State Police Housing Corporation, Chennai

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**GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT**

**OFFICE OF THE ENGINEER-IN-CHIEF, WRD &
CHIEF ENGINEER (GENERAL), PWD, CHEPAUK, CHENNAI-5.**

**Present: Er. K. Ramamoorthy, B.E., MBA.,
Engineer-in-Chief, WRD &
Chief Engineer (General), PWD. (i/c)**

Proc. No. HDO / Sr. DO-2 / SSR 2020-21 / 20021 / 2020-3, dated 20.04.2020

Sub: Cement – Basic Cost for **CEMENT** for adoption in the preparation of estimates during the year **2020-2021** with effect from **20.04.2020** – Approved – Communication of – Regarding.

Ref: Engineer-in-Chief, WRD & Chief Engineer (General), PWD, Chennai-5, Proceedings No. HDO / Sr.DO-2 / SSR 2019-20 / 19020 / 2018-3, dated 17.06.2019.



The **Basic Cost of Cement (excluding all taxes and GST)** for the year 2020-2021 approved by the Schedule of Rates Committee for adoption in the preparation of estimates during the year 2020-2021 **with effect from 20.04.2020** is given below:

Cement : Rs.5,800 /- per MT

(Rupees Five Thousand and Eight Hundred only)

2.0. The above rate is excluding all taxes & GST, freight charges, etc., at Stockyard / Dealer's Godown. Necessary lead charges (i.e. excluding loading and unloading charges), as applicable as per conveyance table, may be allowed from the Stockyard / Dealer's Godown to the site of work, if duly certified by an officer not below the rank of Assistant Executive Engineer.

3.0. However, in the case, if the source is specified as "Stockyard", the same shall be decided and approved by the Superintending Engineers concerned.

**Engineer-in-Chief, WRD &
Chief Engineer (General), PWD,
Chennai-5 (Member)**

To

1. The Engineer-in-Chief (Buildings) & Chief Engineer (Buildings), Chennai Region, Chennai-5.
2. The Director General, Highways Department, 76, Sardar Patel Road, Guindy, Chennai-25.
3. The Chief Engineer, WRD, Design Research and Construction Support, Chennai-5.
4. The Joint Secretary to Government, Finance Department, Secretariat, Chennai-9.

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STANDARD SCHEDULE OF RATES
[FOR BASIC ITEMS ONLY]
BASIC RATES (EXCLUDING GST & OTHER TAXES)

2020-2021
(W.E.F. 20.04.2020)

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**GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT**

**STANDARD SCHEDULE OF RATES FOR THE YEAR 2020-2021
(w.e.f. 20.04.2020)**

GENERAL NOTE

For special nature of works, for which rates are not covered in the Schedule of Rates, such as road works, water supply, drainage, etc., separate schedule of rates issued by the respective officers / department / board are to be followed.

Extra percentage other than those for the specified areas noted below, shall not be allowed.

1. CORPORATION LIMITS:

An extra 10% on the Rates of Labour, Rates of Works and for Head Load shall be allowed for the works in

- (i) Erstwhile Chennai Corporation limits and the belt area of 32 km around erstwhile Chennai Corporation limits (i.e.) prior to formation of Greater Chennai Corporation.
- (ii) Madurai Corporation limits.
- (iii) Coimbatore Corporation limits and also for works in Hosur Taluk.

2. An extra 5% on the Rates of Labour, Rates of Works and for Head Load shall be allowed for the works in Trichy, Salem, Tirunelveli, Tiruppur, Erode, Thoothukudi and Vellore Corporation limits.

3. RESTRICTED AREAS :

- (i) **An extra 10%** on the Rates of Labour and Rates of Works shall be allowed for **sewer works under unhygienic condition.**
- (ii) **An extra 10%** on the Rates of Labour, Rates of Works and Conveyance Charges shall be allowed for works in the campus of **Central Jails.**
- (iii) **An extra 5%** on the Rates of Labour, Rates of Works and Conveyance Charges shall be allowed for works in the campus of **Sub-jails.**

- (iv) **An extra 20%** on Rates of Labour, Rates of Materials, Rates of Works, Conveyance Charges and Head Load shall be allowed for works in **Reserve Forest Areas**.

4. FOR WORKS IN HILLS:

As the transport facilities in most of the Hilly Areas are now considerably improved and as there is no necessity for allowing extra percentage as hitherto followed, the Hilly Areas are now again regrouped as detailed hereunder and the extra percentage allowable has been revised accordingly and fixed.

The conveyance table approved and furnished in the schedule of rates under the Head **V. Conveyance Table, (B). Conveyance of Materials by Road on Hills** shall be adopted for all works in hills.

- (i) For works in **Nilgiris District an extra 40% on the** rates of labour, rates of work, head load and an extra 25% on the rates of materials shall be allowed.
- (ii) For works in **Mudumalai Sanctuary, Shandy Nallah Sheep Farm, Dansandle areas, an extra 40%** over rates of labour, rates of work and head load and an extra 25% on the rates of materials shall be allowed.
- (iii) For works in **Valparai Area an extra 40% on the** rates of labour, rates of work, head load and an extra 25% on the rates of materials shall be allowed.
- (iv) For works in **Gudiyalathur, Siruvani, Thavalamalai Hills, Talavadi Hills, Bargur Hills, Anamalai, Chennimalai and Sivanmalai Hills an extra 20%** on the Rates of Labour, Rates of Materials, Rates of Works and Head Load shall be allowed.
- (v) **For works in Western Ghats** of **Madurai**, Virudhunagar, Coimbatore, Tirunelveli & Kanyakumari Districts an extra 20% on the Rates of Labour, Rates of Materials, Rates of Works and Head Load shall be allowed.

- (vi) (a) **An extra 50%** on the Rates of Labour for works in Thekkady shall be allowed.
- (b) **Add 25% extra** shall be allowable on the Rates of Materials which are to be supplied at Thekkady, subject to the condition that there shall not be any extra on conveyance, tollgate fee, interstate allowance, etc. The conveyance charge as applicable for Ghat Road, Cart Track, etc., as per schedule of rates is only applicable.
- (vii) **An extra 60%** shall be allowable on the Rates of Materials to be supplied for Periyar Dam Site subject to the condition that there shall not be any extra on conveyance, tollgate fee, interstate allowance, etc. The conveyance charge as applicable for Ghat Road, Cart Track, etc., as per schedule of rates is only applicable.
- (viii) **An extra 100%** on the Rates of Labour for works in Periyar Dam Site under normal condition shall be allowed.
- (ix) **An extra 150%** on the Rates of Labour for works in Periyar Dam Site under hanging condition shall be allowed.
- (x) **An extra 50%** on the Rates of Labour, Rates of Materials, Rate of Works and Head Load shall be allowed for the works at Lower Camp above Kuruvanthu Bridge, Bodi Hills, Cumbam mettu, Sirumalai, Pachai Kamatchi Hills, Palani Hills, Tiruparankundram Hills, Idumban Hills, Megamalai Panchayat and Thummakundu Panchayat.
- (xi) **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and an extra 25% over the Rates of Materials shall be allowed for the works at Kodaikanal.
- (xii) **An extra 25%** on the Rates of Labour, Rates of Materials, Rates of Works and Head Load shall be allowed for works in Yercaud, Yercaud Sub-Taluk, Boothamalai, Aranuthumalai, Sarugumalai and Thiruchengode Hills in Salem & Namakkal District.

- (xiii) **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Kalrayan Hills, Pachamalai Hills and Kolli Hills in Salem & Namakkal Districts.
- (xiv) **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Jawadhu Hills, Elagiri Hills, Kalrayan Hills, Nakkanamalai Hills, Naickerner Hills Tiruvannamalai & Vellore Districts.
- (xv) **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Piranmalai covering Oduvarpatti, Kattugudi Patti, Ponnadaipattu, V. Pudur Village, Mamalai covering Vannar Irruppu, Nagamangalam Villages, Usilamalai covering Poolankurichi Village, Hillocks at Musundapatti, Usilam, Ammapatti and Thuthampatti in Sivagangai District.
- (xvi) **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Chitteri Hills, Sittiling in Kalrayan Hills in Dharmapuri District.
- (xvii) **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Kalrayan Hills in Cuddalore & Villupuram Districts.
- (xviii) **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Pachamalai Hills in Tiruchy, Karur & Perambalur Districts.

5. ISLANDS IN RAMANATHAPURAM DISTRICT:

(a). For works in Rameswaram Island:

An extra 25% on the Rates of Labour, Rates of Works and Head Load shall be allowed.

(b). For works in Other Islands:

An extra 125% on the Rates of Labour, Rates of Materials, Rates of Works, Conveyance Charges and Head Load shall be allowed for other Islands in Ramanathapuram viz. (1) Upputhannie Island, (2) Puleevilaichalli Island, (3) Aalaippar Island, (4) Valimunai Island, (5) Appa Island, (6) Thalaiyari Island, (7) Valai Island, (8) Mullai Island, (9) Manoli Island, (10) Minoliputti Island, (11) Nadu Island (12) Nallathannie Island, (13) Pullivasal Island (14) Poomarichan Island, (15) Muyal Island, (16) Singala Island and (17) Kurusedar Island.

(c). For works in Islands of Thoothukudi District:

An extra 125% on the Rates of Labour, Rates of Materials, Rates of Works, Conveyance Charges and Head Load shall be allowed for Van, Kasuvar, Karaichalli Island and Vilankuchali Islands.

6. TUNNELS:

An extra 15% on the Rates of Labour and Rates of Works shall be allowed for works inside Tunnels.

7. DAM SITES UNDER HANGING CONDITION (Other than Periyar Dam Site):

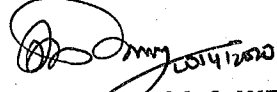
An extra 75% on the Rates of Labour employed for the items of works, which may have to be executed **by hanging from the top of Dam through slings (or) rope ladders to work in dizzy height. (This will apply only for maintenance and repair works).**

8. GENERAL FOOT NOTE:

- (i) The rates of labour means the labour rates fixed under the head, **Rates of Labour.**
- (ii) **Rates of Works** includes the labour for earthwork, refilling foundation, dismantling, jungle clearance, head load, etc., also where human labour alone is involved.

- (iii) The percentage increase provided for the materials are applicable **only for the materials which are quarried or manufactured locally in the specified area.**
- (iv) The percentage increase provided for **Rates of Works** are allowable only on the items where human labour alone is involved.
- (v) The percentage increase provided for **Conveyance Charges** are allowable for the distance covered in the specified area / Special Tract only.
- (vi) The extra percentage allowable as specified above shall not be applicable for the materials / works covered under Annexure-VI "Rates of Other Construction Materials" and Annexure-VII "Rates of Electrical Items of Works". Similarly, no conveyance charges shall be allowed for the items covered under these two categories. The rates approved therein are applicable at site of work.
- (vii) While adopting source of any materials inside the special tracts viz., Corporation limits, Reserve Forest Areas, Hilly Areas, Islands, Dam Sites etc., where extra percentage allowable for the materials which are quarried or manufactured locally, it is the duty of the officer in charge of the work (not below the rank of Assistant Executive Engineer), to analyse and confirm whether the finished cost of such materials / works are higher if the materials are conveyed and brought to the site from the areas outside the specified area, where such extra percentage are not permissible.
- (viii) The necessity of inclusion of relevant footnotes in respect of the districts covered under their region other than the general notes furnished above, if any, may be analysed and recommendations sent to the Engineer-in-Chief, WRD & Chief Engineer (General), PWD, Chennai-5 for consideration by the Schedule of Rates Committee and approval.

- (ix) As per Notification No.31/2017- Central Tax(Rate) dated 13th October, 2017 the concessional rate of GST at 12% [CGST at 6%+ SGST at 6%] is leviable for any Government contract, whether Civil or Electrical, irrespective of the GST rate applicable on purchase of goods used in the execution of Government Contract. The contractor is eligible to get refund of excess tax paid over or liable to pay tax as per Notification No.20/2017, Central Tax (Rate) dated 22.8.2017, Notification No.24/2017, Central Tax (Rate) dated 21.9.2017 and Notification No.31/2017, Central Tax (Rate) dated 13.10.2017.
- (x) Further, for Works Contract services involving predominantly earth works (that is, constituting more than 75% of the value of the works contract) supplied to Central Government, State Governments, Local Authority, Governmental Authority for Government Entity shall be taxed at 5% as per Notification No.31/2017 – Central Tax (Rate) dated 13th October, 2017. Therefore, for such contract the amount of GST is to be calculated at 5% [CGST at 2.5%+ SGST at 2.5%] over and above the Basic rate.


**Engineer-in-Chief, WRD &
Chief Engineer (General), PWD,
Chennai-5 (Member)**


**STATEMENT SHOWING THE EXTRA PERCENTAGE ALLOWABLE
AS PER GENERAL NOTE TO SCHEDULE OF RATES FOR THE YEAR 2020-2021
(with effect from 20.04.2020)**

Sl. No.	Area	Percentage extra allowable on				
		Labour	Material	Rate of work (where human labour involved)	Conveyance	Head load
1	For works in (i) Erstwhile Chennai Corporation limits and the belt area of 32 km around erstwhile Chennai Corporation limits (i.e.) prior to formation of Greater Chennai Corporation, (ii) Madurai Corporation limits, (iii) Coimbatore Corporation limits and also for works in Hosur Taluk	10%	-	10%	-	10%
2	For works in Trichy, Salem, Tirunelveli, Tiruppur, Erode, Thoothukudi and Vellore Corporation limits	5%	-	5%	-	5%
3	Restricted Areas					
i	For sewer works under unhygienic condition	10%	-	10%	-	-
ii	For works in Central Jail Campus	10%	-	10%	10%	-
iii	For works in Sub-Jail Campus	5%	-	5%	5%	-
iv	For works in Reserve Forest Areas	20%	20%	20%	20%	20%
4	Hills					
i	For works in Nilgiris District	40%	25%	40%	-	40%
ii	For works at Mudumalai Sanctuary, Shandy Nalla Sheep Form, Dansandle Area	40%	25%	40%	-	40%
iii	For works at Valparai	40%	25%	40%	-	40%
iv	For works at Gudiyalathur, Siruvani, Thavalamalai Hills, Thalavadi Hills, Bargur Hills, Anamalai, Chennai Malai and Sivanmalai Hills	20%	20%	20%	-	20%
v	For works in Western Ghats of Madurai, Virudhunagar, Coimbatore, Tirunelveli and Kanyakumari Districts	20%	20%	20%	-	20%
	In Madurai, Theni and Dindigul Districts					
vi	For works at Thekkady	50%	25%	-	-	-
vii	For works at Periyar Dam Site	-	60%	-	-	-
viii	For works at Periyar Dam Site under normal condition	100%	-	-	-	-
ix	For works at Periyar Dam Site under hanging condition	150%	-	-	-	-

Sl. No.	Area	Percentage extra allowable on				
		Labour	Material	Rate of work (where human labour involved)	Conveyance	Head load
x	For works at Lower Camp above Kuruvanthu Bridge, Bodi Hills, Cumbam Mettu, Sirumalai, Pachai Kamatchi Hills, Palani Hills, Tiruparankundram Hills, Irdumban Hills, Megamalai Panchayat and Thummakundu Panchayat	50%	50%	50%	-	50%
xi	For works at Kodaikanal	40%	25%	40%	-	40%
xii	For works at Yercaud Hills, Yercaud Sub-Taluk, Boothamalai, Aranuthumalai, Sarugumalai and Tiruchengodu Hills in Salem and Namakkal Districts	25%	25%	25%	-	25%
xiii	For works at Kalrayan Hills, Pachamalai Hills, Kolli Hills in Salem and Namakkal Districts	40%	25%	40%	-	40%
xiv	For works at Jawadhu Hills, Elagiri Hills, Kalrayan Hills, Nakkanamalai Hills, Naickenneri Hills in Tiruvannamalai and Vellore Districts	40%	25%	40%	-	40%
xv	For works at Piranmalai covering Oduvarpatti, Kattugudipatti, Pannadaipattu, V.Pudur Villages, Mamalai covering Vannar Iruppu, Nagamangalam Villages, Usilamalai covering Poolankurichi Village, Hillocks at Musundapatti, Usilam, Ammapatty and Thuthampatti in Sivagangai District	40%	25%	40%	-	40%
xvi	For works at Chitheri Hills, Sittiling in Kalrayan Hills in Dharmapuri District	40%	25%	40%	-	40%
xvii	For works at Kalrayan Hills in Cuddalore and Villupuram Districts	40%	25%	40%	-	40%
xviii	For works at Pachamalai Hills in Trichy, Karur and Perambalur Districts	40%	25%	40%	-	40%
5	Islands					
i	For works at Rameswaram Island in Ramanathapuram District	25%	-	25%	-	25%
ii	For works in other Islands, viz. Upputhannie, Puleevilaichalli, Alaiappar, Valimunai, Appa, Thalaiyari, Valai, Mullai, Manoli, Minidiputti, Nadu, Nallathannie, Pullivasal, Poomarichan, Muyal, Singala, Kuruseedar Islands in Ramanathapuram District	125%	125%	125%	125%	125%

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Sl. No.	Area	Percentage extra allowable on				
		Labour	Material	Rate of work (where human labour involved)	Conveyance	Head load
iii	For works in Van, Kasuvar, Karaichalli and Vilankurichi Islands in Thoothukudi District	125%	125%	125%	125%	125%
6	Tunnels					
i	Where human labour alone is involved	15%	-	15%	-	-
7	Dam sites under hanging condition					
i	For works at dam sites other than Periyar Dam Site, which may be executed by hanging from top of dam through slings or rope ladders to work in dizzy height	75%	-	-	-	-


 Engineer-in-Chief, WRD &
 Chief Engineer (General), PWD,
 Chennai-5 (Member)

8/21/20
 20/4/20

RATES OF LABOUR

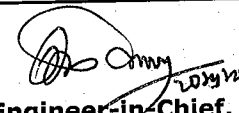
Sl. No.	Sch. Item No.	Description of Labour	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
I		HIGHLY SKILLED CATEGORY		
1	76A	Technical Assistant Grade-I (B.E.Passed)	Day	937.00
2	76B	Technical Assistant Grade-II (Diploma in Engg. Passed / B.E. Failed / Degree in Geology for Ground Water Works)	Day	844.00
3	76C	Technical Assistant Grade-III (Diploma in Engg. Failed / ITI (Civil) Passed)	Day	714.00
4	76D	Cinema Operator (ITI Passed)	Day	589.00
5	77A	Laboratory Assistant Grade-I (Post Graduate in Science)	Day	714.00
6	77B	Laboratory Assistant Grade-II (Degree in Science / Degree in Geology for Ground Water)	Day	654.00
7	77C	Laboratory Assistant Grade-III (With Degree Qualification to work as Works Clerk)	Day	589.00
8	76E	B.Sc., (Agriculture) Passed	Day	844.00
9	89A	Computer Operator Grade-I [B.E. (Computer Science) / M.Sc., (Computer Science)]	Day	937.00
10	89B	Computer Operator Grade-II [B.Sc. (Computer Science) / Diploma in Computer Science]	Day	844.00
11	90A	Irrigation Community Organiser Grade-I [B.E. (Agri) Passed / B.Sc. (Agri) Passed / P.G. (Geology) & Rural Development]	Day	903.00
12	90B	Irrigation Community Organiser Grade-II [B.E. (Agri) Failed / B.Sc. (Agri) Failed / Diploma in Agri. Passed]	Day	752.00
13	100	Wireman Grade-I / Electrician Grade-I	Day	636.00
II		SKILLED CATEGORY		
14	4	Blacksmith-I Class	Day	592.00
15	5	Boat Mazdoor	Day	497.00

Sl. No.	Sch. Item No.	Description of Labour	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
16	11	Carpenter-I Class	Day	752.00
17	15	Cleaner-First Grade	Day	400.00
18	19	Fitter-I Class	Day	679.00
19	20	Fitter (Pipe Laying / Bar Bending)-I Class	Day	667.00
20	21	Floor Polisher	Day	592.00
21	25	Hammer Mazdoor	Day	476.00
22	26	Head Mazdoor for Well Sinking	Day	497.00
23	27	Driver (Light Duty)	Day	592.00
24	27A	Driver (Heavy Duty)	Day	633.00
25	36	Maistry, Road Inspector & Work Inspector	Day	571.00
26	36A	Maistry, Road Inspector & Work Inspector (Degree Holder)	Day	633.00
27		Skilled Mason Class-I for Heritage Work	Day	1085.00
28		Skilled Mason Class-II for Heritage Work	Day	949.00
29	37	Mason for Brick Work-I Class	Day	769.00
30		Skilled Sthapathy Brick Mason for Heritage Work	Day	1357.00
31	38	Mason for Stone Work-I Class	Day	769.00
32		Skilled Sthapathy Stone Mason for Heritage Work	Day	1357.00
33	40	Mechanic-I Class	Day	592.00
34	42	Mopla-I Class	Day	591.00
35	43	Navagonies or Javali Man-I Class	Day	497.00
36	44	Painter / Varnisher-I Class	Day	615.00
37	46	Pile Driver	Day	546.00
38	47	Plumber-I Class	Day	667.00
39	52	Sawyer	Day	546.00
40	54	Smith-I Class	Day	591.00
41	56	Stone Cutter-I Class	Day	591.00
42	58	Syrang-I Class	Day	591.00

Sl. No.	Sch. Item No.	Description of Labour	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
43	62	Tinker-I Class	Day	476.00
44	63	Turner-I Class	Day	546.00
45	64	Time Keeper-I Class	Day	591.00
46	67	Welder / Bracer-I Class	Day	591.00
47	68	Well Diver for removing silt-I Class	Day	591.00
48	69	Well Sinker-I Class	Day	667.00
49	70	Well Sinking Diver working with Helmet (above two metres depth of water)	Day	689.00
50	72	Wodder	Day	497.00
51	81	Compressor Operator	Day	522.00
52	95	Heatmaster Operator	Day	497.00
53	97	Geological Assistant	Day	730.00
54	98	Stone & Crusher Operator	Day	522.00
55	101	Wireman Grade-II / Electrician Grade-II	Day	633.00
56	103	Lift Operator	Day	571.00
57	104	Laboratory Attendant	Day	425.00
58	105	Sound Service Operator	Day	476.00
59	106	Electrical Maistry	Day	730.00
III		SEMI SKILLED CATEGORY		
60	2	Axe Mazdoor	Day	469.00
61	4A	Blacksmith-II Class	Day	569.00
62	8	Bullocks Pair with Driver (with Bandy)	Day	928.00
63	8A	Bullocks Single with Driver (with Bandy)	Day	667.00
64	12	Carpenter-II Class	Day	718.00
65	13	Caulker	Day	519.00
66	15A	Cleaner-Second Grade	Day	396.00
67	18	Ferry Mazdoor	Day	519.00
68	19A	Fitter-II Class	Day	660.00

Sl. No.	Sch. Item No.	Description of Labour	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
69	20A	Fitter (Pipe Laying / Bar Bending)-II Class	Day	647.00
70	22	Gardener	Day	469.00
71	28	Jumper Mazdoor	Day	469.00
72	37A	Mason for Brick Work-II Class	Day	718.00
73	38A	Mason for Stone Work-II Class	Day	718.00
74	39A	Mazdoor Category-I	Day	502.00
75	39C	Head Mazdoor	Day	519.00
76	40A	Mechanic-II Class	Day	569.00
77	42A	Mopla-II Class	Day	569.00
78	44A	Painter / Varnisher-II Class	Day	595.00
79	47A	Plumber-II Class	Day	647.00
80	48	Pump Driver	Day	519.00
81	54A	Smith-II Class	Day	569.00
82	55	Sprayer Mazdoor (for Bitumen, Tar etc.)	Day	469.00
83	56A	Stone Cutter-II Class	Day	569.00
84	58A	Syrang-II Class	Day	569.00
85	60	Thatcher	Day	497.00
86	62A	Tinker-II Class	Day	469.00
87	63A	Turner-II Class	Day	519.00
88	64A	Time Keeper-II Class	Day	569.00
89	67A	Welder / Bracer-II Class	Day	569.00
90	68A	Well Diver for removing silt-II Class	Day	569.00
91	69A	Well Sinker-II Class	Day	647.00
92	78A	Mazdoor employed for Geological mapping	Day	502.00
93	78B	Mazdoor employed for Pitting, Trenching, Sampling & Drilling works	Day	502.00
94	78C	Mazdoor employed for Geophysical investigation works	Day	502.00

Sl. No.	Sch. Item No.	Description of Labour	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
95	78D	Head Mazdoor to Supervise exploratory works	Day	531.00
96	79	Mixer Operator (including concrete mixer)	Day	546.00
97	80	Mixer Driver	Day	519.00
98	96	Raker	Day	519.00
99	99	Heavy Mazdoor	Day	546.00
100	102	Electrical Helper	Day	497.00
IV		UN-SKILLED CATEGORY		
101	39B	Mazdoor Category-II	Day	412.00
NOTE:				
1	The Basic Rate adopted under this Head, "Annexure-I – Rates of Labour" is exclusive of all taxes and GST.			


 Engineer-in-Chief, WRD &
 Chief Engineer (General), PWD,
 Chennai-5 (Member)


 22/4/20

RATES OF MATERIALS

Sl. No.	Sch. Item No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
		A. BRICKS AND TILE PRODUCTS		
	1	Second Class Table Moulded Chamber Burnt Bricks		
1	a	9" x 4 ¹ / ₂ " x 3"	1000 Nos.	7509.00
2	b	9" x 4 ³ / ₈ " x 2 ³ / ₄ "	1000 Nos.	7221.00
	2	Second Class Ground Moulded Chamber Burnt Bricks		
3	a	9" x 4 ¹ / ₂ " x 3"	1000 Nos.	6469.00
4	b	9" x 4 ³ / ₈ " x 2 ³ / ₄ "	1000 Nos.	6282.00
	3	Third Class Country Brick Kiln Burnt		
5	a	8 ³ / ₄ " x 4 ¹ / ₄ " x 2 ³ / ₄ "	1000 Nos.	5438.00
6	b	8 ³ / ₄ " x 4 ¹ / ₄ " x 2 ¹ / ₄ "	1000 Nos.	4277.00
7	c	8 ³ / ₄ " x 4 ¹ / ₄ " x 2"	1000 Nos.	4095.00
	3A	Fly Ash Bricks		
8	a	230 x 110 x 70mm	1000 Nos.	6282.00
	b	230 x 110 x 75mm	1000 Nos.	6469.00
	4	Specially Moulded Country Brick for well steining		
9	a	8 ³ / ₄ " x 4 ¹ / ₄ " x 2"	1000 Nos.	2408.00
10	b	Perforated Bricks 19 x 9 x 9cm	1000 Nos.	3671.00
11	c	Terrace Bricks 15 x 7.5 x 2.5cm	1000 Nos.	943.00
12		Special Bricks 8" x 4" x 2" for Heritage Works	1000 Nos.	12726.00
13		Terrace Bricks 6" x 3" x 1" for Heritage Works	1000 Nos.	9544.00
14		Wire Cut Bricks for Heritage Works		
a		Size 9" x 4" x 3"	1000 Nos.	12726.00
b		Size 9" x 4" x 2"	1000 Nos.	10605.00
c		Size 9" x 6.5" x 2"	1000 Nos.	15907.00
	8	Flat Tiles		
15	a	15cm x 15cm x 12mm	1000 Nos.	789.00
16	b	15cm x 15cm x 20mm	1000 Nos.	937.00

Sl. No.	Sch. Item No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
	10	Brick Jelly		
17	a	40mm size	cum.	672.00
18	b	20mm size	cum.	749.00
	11	Pressed Tiles		
19	a	20 x 20 x 2cm	1000 Nos.	11356.00
20	b	23 x 23 x 2cm	1000 Nos.	16106.00
	12	Pan Tiles		
21	a	23cm x 8cm x 1.7cm	1000 Nos.	429.00
22	b	16.5cm x 8cm x 1.7cm	1000 Nos.	353.00
	13	Best Mangalore Tiles		
23	a	I Class 'A'	1000 Nos.	10286.00
24	b	Class 'AA'	1000 Nos.	10498.00
25	c	Best Mangalore Ridge Tiles	1000 Nos.	30118.00
26	d	Best Mangalore Ceiling Tiles	1000 Nos.	6330.00
27	e	Best Mangalore Glass Roofing Tiles	Each	296.00
28	f	Best Mangalore Ventilating Tiles (Single)	Each	44.40
29	g	Best Mangalore Ventilating Tiles (Double)	Each	56.50
	23A	Mosaic Flooring Tiles (Grey)		
30	a	Mosaic (Grey) Tile 25 x 25 x 2cm	1000 Nos.	11559.00
31	b	Mosaic (Grey) Tile 20 x 20 x 2cm	1000 Nos.	7391.00
	23C	Mosaic (other Colour)		
32	a	Mosaic (other colour) Tile 25 x 25 x 2cm	1000 Nos.	15960.00
33	b	Mosaic (other colour) Tile 20 x 20 x 2cm	1000 Nos.	9417.00
34	c	Mosaic (Green) Tile 20 x 20 x 2cm	1000 Nos.	11559.00
35	d	Mosaic (Green) Tile 25 x 25 x 2cm	1000 Nos.	18134.00
36	24	Mosaic Chequered Tile Grey Colour Size 25 x 25 x 2 cm	1000 Nos.	14528.00
37		Attangudi Tiles for Heritage Works		
a		Size 8" x 8" x 3/4"	Each	26.20
b		Size 10" x 10" x 3/4"	Each	31.80

Sl. No.	Sch. Item No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
		B. STONE AND ROAD MATERIALS		
38	27	Rough Stone for masonry works (Hard Granite)	cum.	437.00
39	28	Rough Stone for revetment works	cum.	378.00
40	29	Jeddy size for revetment (Hard Granite)	cum.	416.00
41	29a	Cut Stone Pillar of size 0.15 x 0.15 x 2.1m	Each	161.00
42	30	From boulders without blasting for revetment	cum.	111.00
43	30a	From boulders without blasting for masonry	cum.	144.00
44	32	Course Rubble Stone for masonry works	cum.	349.00
45	33	Course Rubble Stone for Arch works	cum.	378.00
46	33 (A) I	Chisel Dressed Stone 70cm x 30cm x 29cm	Each	172.00
47	II	Chisel Dressed Stone 37cm x 30cm x 29cm	Each	155.00
48	(B)	Hammer Dressed Stone 37cm x 30cm x 29cm	Each	120.00
49	34	Cut Stone Fully Dressed to size on all faces	cum.	6256.00
50	35	Cut Stone Roughly Dressed	cum.	4305.00
51	36	Ashlar Arch Stone Fully Dressed to size all faces	cum.	4751.00
52	38	Flooring Stone SS Size (Not less than 10cm thick)	sqm.	347.00
53	39 a	Stone Slab for Culvert (3 faces one line dressed) Above 1.2m	cum.	4532.00
54	b	Stone Slab for Culvert (3 faces one line dressed) Upto 1.2m	cum.	4119.00
55	40	Stone Slab for Culvert (3 faces two line dressed)	cum.	5047.00
56	41	For Lintel Coping (3 faces two line dressed)	cum.	5047.00
57	42	Bond Stones	cum.	630.00
58	43 a	Kilometre Stone 1.65 x 0.45 x 0.15m	Each	431.00
59	44 a	Hectametre Stone 0.9x0.1x0.1m	Each	120.00
60	b	Hectametre Stone 0.75x0.23x0.1m	Each	220.00
61	c	Hectametre Stone 0.9x0.15x0.15m	Each	216.00
62	45 a	Demarcation Stone (two line dressed for top 30 cm) 75 x 15 x 15 cm	Each	89.80
63	b	Demarcation Stone (two line dressed for top 30 cm) 90 x 23 x 23 cm	Each	115.00

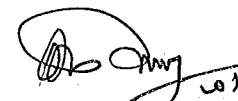
Sl. No.	Sch. Item No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
64	c	Demarcation Stone (two line dressed for top 30 cm) 75 x 23 x 23 cm	Each	107.00
65	d	Demarcation Stone (two line dressed for top 30 cm) 90 x 15 x 15 cm	Each	97.90
66	e	Demarcation Stone with letter cut 75 x 15 x 15cm	Each	120.00
67	f	Edge Stone 45 x 15 x 15 cm	Each	54.50
68	g(i)	T.R.S. Bench mark stone the exposed surface neatly dressed to a height of 15cm including cutting letters 15 x 15 x 60cm	Each	138.00
69	g(ii)	T.R.S. Bench mark stone the exposed surface neatly dressed to a height of 15cm including cutting letters 10 x 10 x 25cm	Each	99.80
70	46 a	Guard Stone (Two line dressed for 45 cm) 23cm dia 1.0m long	Each	159.00
71	b	Guard Stone (Top 0.7m chisel dressed and 0.50m bottom roughly dressed) 0.23 x 0.23 x 1.20m long. Two line dressed top 45cm) 23cm dia 1.0m long	Each	170.00
72	c	Guard Stone (Top 0.7m chisel dressed and 0.50m bottom roughly dressed) 0.23 x 0.23 x 0.90m long. Two line dressed top 45 cm) 23cm dia 0.90m long	Each	159.00
73	d	Guard Stone (Top 0.7m chisel dressed and 0.50m bottom roughly dressed) 0.15 x 0.15 x 0.90m long. Two line dressed top 45 cm) 23cm dia 0.90m long	Each	111.00
74	e	Guard Stone 23cm dia 0.90m long	Each	81.80
	48	Hard Broken Granite Stone Jelly (I.S.S.) Machine crushed / Hand broken		
75	i	HBGS Jelly 90mm size	cum.	430.00
76	ii	HBGS Jelly 80mm size	cum.	481.00
77	iii	HBGS Jelly 63mm size	cum.	556.00
78	iv	HBGS Jelly 50mm size	cum.	645.00
79	v	HBGS Jelly 40mm size	cum.	1004.00
80	vi	HBGS Jelly 25mm size	cum.	863.00
81	vii	HBGS Jelly 20mm size	cum.	1398.00
82	viii	HBGS Jelly 12mm size	cum.	1297.00
83	ix	HBGS Jelly 10mm size	cum.	954.00
84	x	HBGS Jelly 6mm size	cum.	645.00
85	xi	HBGS Jelly 3mm size	cum.	581.00

Sl. No.	Sch. Item No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
86	49 b	Quartz metal		
a	i	Quartz Metal 50mm	cum.	94.90
b	ii	Quartz Metal 40mm	cum.	95.90
87	51	Soft Broken Stone		
a	i	Soft Broken Stone 63mm size	cum.	72.70
b	ii	Soft Broken Stone 40mm size	cum.	81.80
88	52	Laterite 40 to 75mm size	cum.	94.90
89	53	Kankar 40 to 75mm size	cum.	94.90
90	54	Soling Stones unblasted 15cm cube	cum.	111.00
91	54a	Soling Stones blasted 15cm cube	cum.	181.00
92	57	Gravel	cum.	210.00
93	57A	Well Gravel	cum.	157.00
94	57B	Screened Kankar Gravel	cum.	115.00
95	58	Quarry Rubbish	cum.	93.90
96	58A	Stone Dust	cum.	120.10
97	58B	Pond Ash (wet / dry)	cum.	92.90
98	58C	Crushed Stone Sand (Commercially called M-Sand)	cum.	1250.00
99	58D	Plastering Sand (P-Sand)	cum.	1255.00
100	59	Sand for Mortar *	cum.	447.00
101	60	Sand for Filling *	cum.	447.00
102	62	Clay for Puddle & Masonry	cum.	36.30
103	63 (i)	Cuddapah Slab 50mm Thick	sqm.	413.00
104	ii	Cuddapah Slab 38 / 40mm Thick	sqm.	397.00
105	iii	Cuddapah Slab 20 / 30mm Thick	sqm.	366.00
		C. Lime		
106	66	Shell Lime (Slaked & Screened)	cum.	1297.00
107	67	Freshly Slaked & Screened Burnt Lime Stone	cum.	955.00
108	68	Stone Lime or Lime Metal	cum.	82.60
109		Unslaked Pollachi Lime for Heritage Works	cum.	10143.00

Sl. No.	Sch. Item No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
		D. Timber and Roofing Materials		
110	71	TW Scantlings (over 3m for joist and rafters) - Malabar	cum.	116600.00
111	72	TW Scantlings (for Tiebeams and principal rafters) - Malabar	cum.	114700.00
112	73	TW Scantlings (over 2m & below 3m in length) - Malabar	cum.	111600.00
113	74	TW Scantling (below 2m in length) - Malabar	cum.	99400.00
114	75 (i)	TW Planks (over 45cm wide & 12mm thick)	cum.	123100.00
115	ii	TW Planks (30-45cm wide & 12mm thick)	cum.	114300.00
116	iii	TW Planks (30-45cm wide & 12-25mm thick)	cum.	107000.00
117	iv	TW Planks (30-45cm wide & 25-40mm thick)	cum.	102600.00
118	v	TW Planks (15-30cm wide & 12mm thick)	cum.	99900.00
119	vi	TW Planks (15-30cm wide & 12-25mm thick)	cum.	95000.00
120	vii	TW Planks (15-30cm wide & 25-40mm thick)	cum.	93100.00
121	viii	TW Planks (upto 15cm wide & 12mm thick)	cum.	91300.00
122	ix	TW Planks (upto 15cm wide & 12-25mm thick)	cum.	91300.00
123	x	TW Planks (upto 15cm wide & 25-40mm thick)	cum.	86200.00
124		Seasoned Teakwood for Scantling and Planks for Heritage Works	cum.	185200.00
	76	Teak Wood Reepers		
125	i	TW Reepers 50 x 25mm	RM	76.00
126	ii	TW Reepers 50 x 12mm	RM	61.00
	77	Country Wood Scantling		
127	i	CW Scantling (upto 4m in length)	cum.	34300.00
128	ii	CW Scantling (over 4m in length)	cum.	36200.00
129	77A	CW Scantling for tie beams & principal rafters for trusses	cum.	36200.00
130	77B	Jack Wood Scantlings (upto 4m)	cum.	37900.00
131	77D	Silver Oak Scantlings	cum.	15500.00
	78	Country Wood Planks		
132	i	CW Planks (upto 30cm wide-40mm thick)	cum.	39400.00

Sl. No.	Sch. Item No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
133	ii	CW Planks (upto 30cm wide-25mm thick)	cum.	39400.00
134	iii	CW Planks (over 30cm wide-40mm thick)	cum.	39400.00
135	iv	CW Planks (over 30cm wide-25mm thick)	cum.	39400.00
136	78A	JW Planks (25-40mm thick)	cum.	41300.00
137	78B	Silver Oak Plank (40mm thick)	cum.	17600.00
138	78C	Bluegum Plank	cum.	18100.00
	79	Country Wood Reepers		
139	i	CW Reepers (50 x 25mm)	RM	34.60
140	ii	CW Reepers (50 x 12mm)	RM	24.90
141	80	Mango Plank	cum.	16700.00
142	81	Palmyrah Rafter (50-60mm wide & 125mm depth)	RM	49.50
143	a	Palmyrah Leaves	100 Nos.	255.00
144	b	Palmyrah Leaves (labour for cutting)	100 Nos.	40.20
	90	Casurina Poles		
145	a	Casurina Poles 13cm-15cm dia	RM	33.00
146	b	Casurina Poles 10cm-13cm dia	RM	25.20
147	c	Casurina Poles 8cm-10cm dia	RM	19.20
148	d	Casurina Poles 5cm-8cm dia	RM	17.50
	90.1	Eucalyptus Poles		
149	a	13cm to 15cm dia	RM	33.00
150	b	10cm to 13cm dia	RM	23.60
151	c	8cm to 10cm dia	RM	19.20
152	d	5cm to 8cm dia	RM	16.40
153	e	Below 5cm	RM	15.00
154	90.2	Eucalyptus Bullies 4cm to 5cm dia and cross ties	RM	12.00
155	91	Casurina Bullies 4cm-5cm dia & cross ties	RM	13.50
156	92	Bamboo Large (10cm dia and above)	RM	12.00
157	93	Bamboo (7.5cm-10cm dia)	RM	10.60

Sl. No.	Sch. Item No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
		E. Metal and Iron Items		
158	111	Mild Steel Plates or Sheets BG 10	Kg	41.20
159	112	Mild Steel Angles 25 x 25 x 3 mm	Kg	41.20
160	113 a	Binding Wire (Black 18 G)	Kg	43.75
161	113 b	Binding Wire (Galvanised-18 G)	Kg	43.75
162	114	GI Sheets 30cm wide and 1.6mm thick	sqm.	304.00
163	126 i	Weld Mesh 7.5 x 2.5cm 10 Gauge	sqm.	295.00
164	ii	Weld Mesh 7.5 x 5cm 10 Gauge	sqm.	264.00
165	iii	Weld Mesh 10 x 10cm 10 Gauge	sqm.	143.00
166	129	Chicken Mesh	sqm.	31.65
167	130	Fly Proof Mesh	sqm.	91.00
168	131	Supplying Mild Steel Grills for windows, ventilators, etc., including priming coat	Kg	54.50
Note:				
1	For road works, the Schedule of Rates of Highways Department may be adopted in respect of materials for which rates are not available in this schedule of Rates.			
2	For all the materials viz. Bricks and Tile Products, Stone Jelly, Gravel, Sand, Lime Stone, etc., necessary incidental charges, loading charges and unloading charges have been included in the basic cost of materials listed above. Hence, no separate incidental charges, loading charges and unloading charges shall be allowed for the above materials.			
3	The Basic Rate adopted under this Head, "Annexure-II - Rates of Materials" is exclusive of all taxes and GST.			
4	* The cost of sand as indicated Sl. No.100 & 101 and Schedule Item No.59 & 60 is at Government Sand Depot.			


**Engineer-in-Chief, WRD &
 Chief Engineer (General), PWD,
 Chennai-5 (Member)**

RATES OF WORKS

Sl. No.	Sch. Item No.	Description of Works	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
		A. Clearing the Site		
1	1	Clearing Heavy Jungle	sqm.	5.90
2	2	Clearing Light Jungle	sqm.	4.40
3	3	Clearing Scrub Jungle	sqm.	4.10
4	4	Uprooting & Removing Large Palmyrah / Coconut Stumps	Each	120.70
5	5	Uprooting & Removing Small Palmyrah / Coconut Stumps	Each	86.70
6	9	Removing Weeds in Channel and Drain	sqm.	1.60
7	9C	Cleaning Juliflora Jungle with Uprooting	sqm.	6.70
8	9D	Cleaning Juliflora Jungle without Uprooting	sqm.	5.10
		B. Dismantling		
		Dismantling, clearing away and carefully stacking materials useful for re-use for any thickness of walls		
9	10	Brick / Stone in Clay Walls under 3m high	cum.	51.50
10	11	Brick / Stone in Clay Walls, add for every additional 3m or part there of over the initial height of 3m	cum.	17.10
11	11A	Mud / Sun Dried Brick Walls under 3m high	cum.	34.50
12	11B	Mud / Sun Dried Brick Walls, add for every additional 3m or part there of over the initial height of 3m	cum.	9.80
13	12	Brick / Stone Masonry in lime mortar walls under 3m high	cum.	157.50
14	13	Brick / Stone Masonry in lime mortar walls, add for every additional 3m or part there of over the initial height of 3m	cum.	17.40
15	14	Brick / Stone Masonry in cement mortar walls under 3m high	cum.	193.00
16	15	Brick / Stone Masonry in cement mortar walls, add for every additional 3m or part there of over the initial height of 3m	cum.	20.40
17	16	Terracing work in roof or floor	sqm.	52.30
18	17	Flag Stone in roof or floor including lifting	sqm.	27.60
19	18	Cut Stone Slab over culverts upto 3.3m height below GL	cum.	805.00
20	19	Cut Stone Slab over culverts over 3.3m height below GL	cum.	839.00
21	20	Removal of Cut Stone Slabs / RCC Cover Slabs	sqm.	350.00

Sl. No.	Sch. Item No.	Description of Works	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
22	22	Refixing Cut Stone Slab / RCC Cover Slab	sqm.	384.00
23	23	Pantile or Mangalore Tiled Roof without Roof Timbers	sqm.	13.60
24	24	Flat & Pan Tiles or Manglore Tile over Flat Tiles without roof timbers	sqm.	19.00
25	25	AC Sheet Roofing without roof timbers	sqm.	12.10
26	26	Corrugated Iron Sheet Roofing over Pan Tiles without roof timbers	sqm.	20.40
27	27	Old Thatched Roof including tying materials into small bundles for re-use	sqm.	5.90
28	28	Wrought and put-up Framed Timbers in roofs / floors	cum.	506.00
29	29	Doors and Windows including removal of frames, hinges and fastenings	sqm.	104.70
30	32	Dry Stones Apron or Revetment, stacking within 40m lead	cum.	89.70
31	33	Grouted Stones Apron or Revetment, stacking within 40m lead	cum.	104.70
32	34	Dry Stone Masonry Walls	cum.	76.40
33	36	Dismantling Lime Concrete	cum.	242.00
34	37	Dismantling Plain Cement Concrete	cum.	332.00
35	38	Dismantling RCC	cum.	5045.00
35A	38	Dismantling RCC using deploying machineries	cum.	3229.00
36	38A	Chipping of concrete and roughening the surface	sqm.	27.60
37	38B	Pressed Tiles & Weathering Course	sqm.	31.40
38	38C	One Course of Pressed Tile Roof finish in cement mortar	sqm.	17.40
39	38D	One Course of Terrace Bricks Roof finish in cement mortar	sqm.	20.40
40	38E	Two Course of Flat Tiles Roof finish in cement mortar	sqm.	20.40
41	38F	Mosaic-in-situ finish in cement mortar in flooring and in wall surface	sqm.	43.20
42	38G	Floor finish and dadoing walls in cement mortar with Mosaic Tiles / Glazed Tiles / Cuddapah Slabs	sqm.	41.60
		C. Quarrying and Blasting		
43	39	Hard rock measured in solid including blasting & stacking	cum.	594.00

Sl. No.	Sch. Item No.	Description of Works	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
44	39A	Removing hard rock by wedging, chiseling and trimming to proper shape where blasting is prohibited.	cum.	1190.00
45	40A	Medium rock and dense medium rock requiring blasting	cum.	303.00
46	42A	Extra for every additional 10m lead or part thereof over the initial lead for blasted materials	cum.	7.10
47	42B	Extra for every additional 1m lift or part thereof over the initial lift of 2m for blasted materials	cum.	7.30
48	44	Benching, hard rock upto an average 10 cm depth	sqm.	575.00
49	46	Drilling holes in hard granite 40mm diameter	RM	190.00
50	46A	Drilling holes in hard granite 45mm diameter	RM	223.00
51	47	Drilling holes in hard granite 50mm diameter	RM	267.00
52	48	Drilling holes in hard granite 75mm diameter	RM	304.00
53	48A	Drilling holes in hard granite 32mm diameter	RM	161.00
		D. Earth Work		
54	49	ORDINARY SOIL (SS20A) Earth work excavating and depositing on bank with initial lead of 10m & initial lift of 2m in Sand, silt or other loose soil, wet sand or silt not under water, light black cotton soil sandy loam and ordinary soil including excavated earth (SS20A)	cum.	61.50
55	50	ORDINARY SOIL (SS20B) Earth work excavating and depositing on bank with initial lead of 10m & initial lift of 2m in Sand, silt or other loose soil, wet sand or silt not under water, light black cotton soil, sandy loam and ordinary soil including excavated earth (SS20B)	cum.	56.10
56	50A	Sand and Silt Under Water (SS20B) Earth work excavating and depositing on bank with initial lead of 10 m & initial lift of 2m in Slush and silt under water upto 0.75m depth requiring the aid of basket and vessels (SS20B)	cum.	70.20
57	50B	Trimming the bed and the side slope of the bank in all soils except hard rock upto a thickness of 7.5 cm and making it ready to receive the concrete	sqm.	14.30
58	50C	Trimming the bed and the side slope of the bank in all soils except hard rock upto a thickness of 7.5 cm to 15 cm and making it ready to receive the concrete	sqm.	17.30
59	50D	Sectioning during forming bunds when earth moving machinery, lorries and rollers are used for consolidation.	cum.	10.50

Sl. No.	Sch. Item No.	Description of Works	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
60	61	HGS SS.20.A. Earth work excavating and depositing on bank with initial lead of 10 m & initial lift of 2m in Hard stiff clay, stiff black cotton, hard red earth, shales, murram, gravel, stoney earth and earth mixed with small size boulders SS.20.A.	cum.	89.50
61	62	HGS SS.20.B. Earth work excavating and depositing on bank with initial lead of 10 m & initial lift of 2m in Hard stiff clay, stiff black cotton, hard red earth, shales, murram, gravel, stoney earth and earth mixed with small size boulders SS.20B	cum.	84.00
62	67	SDR - (Not Requiring Blasting) Earth work excavating and depositing on bank with initial lead of 10 m & initial lift of 2m in Soft disintegrated rock, laterite, soft rock or kankar, not requiring blasting.	cum.	125.20
63	67A	LOOSE BOULDERS Earth work excavating and depositing on bank with initial lead of 10 m & initial lift of 2m in loose boulders in excavation of various size 150mm to 625 mm	cum.	198.70
64	72	MR-&-DMR (Not Requiring Blasting) Earth work excavating and depositing on bank with initial lead of 10 m & initial lift of 2m in medium rock and dense medium rock not requiring blasting	cum.	219.80
65	76	Extra for every additional 10 metre lead or part thereof over the initial lead	cum.	10.20
66	77	Extra for every additional 1 metre lift or part thereof over the initial lift	cum.	8.10
67	78	Breaking clods, consolidating and sectioning	cum.	5.00
68	78A	Breaking clods, consolidating and sectioning the earth scooped by Bull Dozers.	cum.	15.50
69	79	Add to relevant T.N.D.S.S. No.20.A, rates for new tank bunds and closing breaches for extra watering and consolidation		
70	A	By hand roller	cum.	17.30
71	B	By power roller including hire charges	cum.	29.30
72	80	Benching Old Embankment Slopes 45cm x 45cm	sqm.	3.20
73	81	Puddle wall work	cum.	138.80
74	82A	Turfing in slopes including watering and fixing with initial lead upto 50m	sqm.	29.30

Sl. No.	Sch. Item No.	Description of Works	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
75	84	Refilling with excavated sand complying with standard specification for filling in foundation and basement.	cum.	25.70
76	85	Refilling with excavated soil (other than sand) complying with standard specification for filling in foundation and basement.	cum.	29.30
		E. Open Well Excavation		
77	86	Earth work open well excavation complying with relevant clauses of T.N.D.S.S. Well sinking and with lead upto 10 metre in sand, silt or other loose soil, Wet sand or silt not under water, light black cotton soil, sandy loam and ordinary soil - First depth of 2 metre.	cum.	56.10
78	88	Earth work open well excavation complying with relevant clauses of T.N.D.S.S. Well sinking and with lead upto 10 metre in Hard stiff clay, stiff black cotton soil, hard red earth, shales, murram, gravel, stoney earth and earth mixed with small size boulders and hard gravelly soil - First depth of 2 metre	cum.	83.80
79	89	Earth work open well excavation complying with relevant clauses of T.N.D.S.S. Well sinking and with lead upto 10 metre in soft disintegrated rock, laterite, soft rock or kankar not requiring blasting - First depth of 2 metre	cum.	129.10
80	90	Open well excavation complying with relevant clauses of T.N.D.S.S. Well sinking and with lead upto 10 metre in Medium rock and dense medium rock not requiring blasting - First depth of 2 metre	cum.	207.80
81	90A	Open well excavation complying with relevant clauses of T.N.D.S.S. Well sinking and with lead upto 10 metre in Medium rock and dense medium rock requiring blasting - First depth of 2 metre	cum.	311.60
82	91	Open well excavation complying with relevant clauses of T.N.D.S.S. Well sinking and with lead upto 10 metre in Hard granite measured in solid including blasting and stacking - First depth of 2 metre	cum.	609.50
83	92A	Sinking well in loose soils, light black cotton soil, sandy loam and ordinary soil under water including bailing or pumping charges if necessary etc., complete - First depth of 2 metres	cum.	87.00
84	92B	Sinking well in Sand, including bailing or pumping charges if necessary etc., complete - First depth of 2 metres	cum.	122.10

Sl. No.	Sch. Item No.	Description of Works	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
85	92C	Sinking well in hard stiff clay, light black cotton soil, hard red earth, shales, murram, gravel, stoney earth, and earth mixed with small size boulders and hard gravelly soil including bailing or pumping charges if necessary etc., complete - First depth of 2 metres	cum.	122.10
		F. Rate for Earth Work Deploying Machinery		
86	1	Earth work in all soils except hard rock requiring blasting and conveying for formation of bund with lead of 0 to 100 metre deploying earth moving machinery and tippers including benching, formation of bunds, breaking clods, sectioning etc., complete	cum.	45.55
87	1a	Earth work in all soils except hard rock requiring blasting and conveying for formation of bund with an extra lead of every 100 metre or part thereof deploying earth moving machinery and tippers including benching, formation of bunds, breaking clods, sectioning etc., complete	cum.	3.60
88	2	Earth work deploying earth moving machinery for desilting channel and forming bund on either side and depositing the earth on banks including jungle clearance etc complete		
89	a	having width up to 3m	cum.	26.85
90	b	having width of 3m -10m	cum.	32.95
91	3	Earth work excavation deploying earth moving machinery for desilting channel having a width of more than 10m and forming bund on either sides and depositing the earth on banks including jungle clearance etc complete	cum.	38.30
		G. LIFT CHARGES - Concrete - Brick or Stone Masonry - Above or Below Ground Level		
		STATEMENT I		
	A	Concrete - Above Ground Level		
92	1	Add to the basic rates for works upto 4.50M height in ground floor (height to be reckoned from floor level ie., plinth level in GL)	cum.	89.90
93	2	Add for works in every upper floor over the rate of preceeding floor	cum.	177.00
	B	Brick or Stone Masonry - Above Ground Level		
94	1	Add to the basic rates for works upto 4.50M height in ground floor (height to be reckoned from floor level ie., plinth level in GL)	cum.	59.20
95	2	Add for works in every upper floor over the rate of preceeding floor	cum.	119.30

Sl. No.	Sch. Item No.	Description of Works	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
		STATEMENT II		
	A	Concrete - Below Ground Level		
96	1	Add the basic rate for works 1.50m depth and upto 4.5m depth below ground level	cum.	88.50
97	2	Add the basic rate for works 4.50m depth and upto 9m depth below ground level	cum.	177.60
98	3	Add extra over the above item 2 for every additional 4.50m depth beyond 9.0m depth below ground level	cum.	177.60
	B	Brick or Stone Masonry - Below Ground Level		
99	1	Add the basic rate for works 1.50m depth and upto 4.50m depth below GL	cum.	59.40
100	2	Add the basic rate for works above 4.50m depth and upto 9.0m depth below GL	cum.	119.30
101	3	Add extra over the above item 2 for every additional 4.50m depth beyond 9.0m depth below ground level	cum.	119.30
		H. Concrete Vibrators		
102	1	Where vibrators are specified for consolidation in PCC, this rate per Cu.M over and above the provision made in the standard data book for consolidation with manual labour may be allowed.	cum.	52.40
103	2	Where vibrators are specified for consolidation in RCC, this rate per Cu.M over and above the provision made in the standard data book for consolidation with manual labour may be allowed.	cum.	70.70
		I. Plastering		
104	318	Clean removal of lime plaster from walls and racking out joints 20mm deep or from terraced roofs racking out joints 12mm deep	sqm.	7.10
105	319	Clean removal of lime plaster from walls	sqm.	5.50
106	320	Clean removal of Cement plaster from walls	sqm.	5.80
107	321	Clean removal of Cement plaster from walls and racking out joints 20mm deep	sqm.	7.70
		J. White Washing, Colour Washing & Distempering		
108	338	Thorough scrapping of old plastered surface	sqm.	3.20
109	339	Washing of plastered surface with soap, soda and water (or with soda lime, brush and water)	sqm.	4.00

Sl. No.	Sch. Item No.	Description of Works	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
		K. Painting, Wood Oiling, Tarring, Varnishing, Bee's Waxing Etc.,		
110	357	Removing old paint from doors and windows by blow lamp and scrapping, including removal and re-fitting of shutters.	sqm.	25.90
111	357A	Removing old paint from doors and windows by scrapping and refitting of shutters.	sqm.	10.90
112	357B	Removing paint from doors, windows & wood works by manual labour	sqm.	7.40
113	357C	Removing old paint from structural steel by blow lamp or sand paper	sqm.	15.50
114	357 D	Scrapping and removing old paint from structural steel by manual labour	sqm.	6.90
115	357 E	Removing old paint from iron surface with sand paper	sqm.	6.50
116	357 F	Repolishing the mosaic flooring including polishing stone and hire charges for polishing machine but excluding cost of electrical charges	sqm.	15.30
		L. Miscellaneous		
117	369 B	Supplying and filling up the empty cement gunny bags with sand, stitching them, conveying the same to site and stacking as directed within a lead of 10 m excluding cost of bags, Jute, thread, needle, sand etc., (Labour only)	Bag	6.50
118	369 B (i)	Driving piles up to 15 cm dia in river bed	RM	20.30
119	(ii)	Pointing the edge and driving bamboo / casurina / eucalyptus piles into river bed for the first 1m depth below ground level.	Each	17.30
120	(iii)	Driving bamboo / casurina / eucalyptus piles into ground beyond 1m depth from ground level. For every 1m (or) part thereof	RM	17.30
		M. River Conservancy of Korambu Works		
121	375A	Brush wood bundles one metre girth and one metre long within an initial lead of 1.6 K.M.	one bundle	3.30
122	375B	Extra for every additional lead of 1.6K.M (for the above item)	one bundle	0.39
123	378A	Driving casurina piles into bed including scaffolding etc., complete	RM	8.40

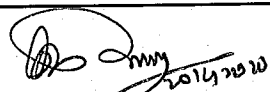
Sl. No.	Sch. Item No.	Description of Works	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
124	378B	Casurina walling pieces 40 mm to 50 mm diameter including fixing with nails and tying with ropes	RM	11.70
		N. Cuting and Threading of GI Pipe		
125	1	15mm dia GI Pipe Cutting	Each	7.10
126		15mm dia GI Pipe Threading	Each	10.00
127	2	20mm dia GI Pipe Cutting	Each	7.10
128		20mm dia GI Pipe Threading	Each	10.20
129	3	25mm dia GI Pipe Cutting	Each	8.50
130		25mm dia GI Pipe Threading	Each	21.10
131	4	32mm dia GI Pipe Cutting	Each	10.20
132		32mm dia GI Pipe Threading	Each	28.50
133	5	40mm dia GI Pipe Cutting	Each	13.80
134		40mm dia GI Pipe Threading	Each	32.00
135	6	50mm dia GI Pipe Cutting	Each	17.70
136		50mm dia GI Pipe Threading	Each	35.60
137	7	65mm dia GI Pipe Cutting	Each	19.20
138		65mm dia GI Pipe Threading	Each	43.00
139	8	80mm dia GI Pipe Cutting	Each	25.00
140		80mm dia GI Pipe Threading	Each	54.10
141	9	100mm dia GI Pipe Cutting	Each	35.60
142		100mm dia GI Pipe Threading	Each	71.70
		O. Labour Wrought and Put-up for Doors, Windows & Ventilators		
143	1	Labour wrought and put up in position of frames inclusive of fixing holdfasts for doors, windows and ventilators etc.	cum.	10275.00
144	2	Labour wrought and put up in position Shutters for fully panelled doors (external or internal) moulded panels including labour charges for fixing furniture fittings complying with standard drawings and standard specification.	sqm.	1155.00
145	3	Labour wrought and put up in position Shutters for fully panelled doors internal five plywood panels including labour charges for fixing furniture fittings complying with standard drawings and standard specification.	sqm.	963.00

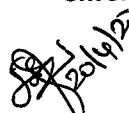
Sl. No.	Sch. Item No.	Description of Works	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
146	4	Labour wrought and put up in position Shutters for glazed and panelled doors including labour charges for fixing furniture fittings complying with standard drawings and standard specification.	sqm.	1078.00
147	6	Labour wrought and put up in position Shutters for Framed and planked doors including labour charges for fixing furniture fittings complying with standard drawings and standard specification.	sqm.	900.00
148	7	Labour wrought and put up in position Shutters for ledged and braced and planked doors including labour charges for fixing furniture fittings complying with standard drawings and standard specification.	sqm.	608.00
149	8	Labour wrought and put up in position Shutters for Glazed windows including labour charges for fixing furniture fittings complying with standard drawings and standard specification.	sqm.	1078.00
150	11	Labour wrought and put up in position Shutters for Windows panelled including labour charges for fixing furniture fittings complying with standard drawings and standard specification.	sqm.	1160.00
151	12	Labour wrought and put up in position Shutters for windows ledged and braced and planked doors including labour charges for fixing furniture fittings complying with standard drawings and standard specification.	sqm.	608.00
152	13	Labour wrought and put up in position Frames, shutters for Ventilators glazed fixed double frames and with wire netting complete fixed in position in accordance with standard drawings and standard specification.	sqm.	963.00
153	14	Labour wrought and put up in position Frames, Shutters for Swing Ventilators and fixed in position in accordance with standard drawings and standard specification.	sqm.	901.00
154	19	Labour charges for fixing doors alongwith frames in position etc., complete (finished work)	sqm.	171.30
155	20	Labour charges for fixing windows and ventilators along with frames in position etc., complete.	sqm.	215.00
156	21	Labour wrought and put up in position Flush shutters		
a		Single leaf shutter	sqm.	161.00
b		Double leave shutters	sqm.	248.00

Sl. No.	Sch. Item No.	Description of Works	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
157	22	Labour wrought and put up in position fly proof wire gauge shutters for doors, windows and ventilators.	sqm.	576.00
158	23	Labour wrought and put up for providing teak wood weldmesh screen with frames 3" x 3" (0.075m x 0.075m)	sqm.	805.00
159		Labour charges for fixing aluminium doors, windows and ventilators	sqm.	549.00
		P. Breaking Metals		
160	50A	Labour charges for breaking 40mm metal from departmental blasted stones	cum.	305.00
161	50B	Labour charges for breaking 20mm metal from departmental blasted stones	cum.	456.00
162	50C	Labour charges for breaking 50mm metal from departmental blasted stones	cum.	182.80
		Q. Cement Mortar		
163	1	Grinding Mortar (Special Grinding Lime)	cum.	277.00
164	2	Grinding Mortar (Ordinary Grinding Lime)	cum.	211.00
165	3	Mixing Mortar - Cement by Manual	cum.	87.00
166	4	Mixing Mortar - Cement by Machine Mixing	cum.	115.00
		R. Metal and Iron Works		
167	1	Petty iron work for truss, straps etc., (wrought & fixed) labour only	Kg	41.60
168	2	Iron works for trusses and record racks (labour only)	Kg	38.40
169	3	Fixing in position mild steel grills for windows, ventilators, etc.	Kg	24.00
170	4	Fixing MS rods round / square for windows	Kg	22.30
171	5	Fixing iron bars in windows and ventilators	Kg	22.30
Note:		The Basic Rate adopted under this Head, "Annexure-III – Rates of Works" is exclusive of all taxes and GST.		
FOOT NOTE:				
DISMANTLING				
1	For dismantling 0.75m below ground level 25% extra over the basic rates (i.e. the rates already available in the Schedule of Rates for dismantling is allowed).			
2	The rate of dismantling lime concrete, cement concrete and reinforced cement concrete are exclusive of bailing out water charges. The rate is same in all floors.			
3	Add 25% extra for cause of restricted partial dismantling in existing structures where extra care is required for safeguarding the main structure.			

Sl. No.	Sch. Item No.	Description of Works	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
QUARRYING AND BLASTING - APPLICABLE FOR SCHEDULE ITEM No. 39 and 39A				
1		The deduction of 40% is to be made for the quantity of voids on stock measurement and payment is for the lesser of the two viz. solid measurement (or) stock measurement minus 40% of stock measurement for voids.		
2		The rates for extra leads and lifts are on the quantity as per solid measurements or stock measurements less 40% for voids whichever is less. These rates are applicable for head load only. The Notes 3, 4, 5 under (D) Earth Work shall be applicable to Schedule Item No.39, 39A and 40A		
EARTH WORK				
1		Standard specification No.20A requires breaking clods, ramming and sectioning of spoil bank and compacting by watering and consolidation in accordance with TNBP.		
2		Standard specification No.20B does not requires breaking clods, ramming, sectioning but require neat banking in accordance with the standard specifications.		
3		Double the relevant rate for standard specification No.20B will apply to excavation in all soils and rock classification given above for foundation of buildings, abutments, piers, wings and returns of bridges, culverts, sluices, regulators and cross masonry works, retaining walls, toe walls, cut-off walls and body walls of anicuts, weirs, retaining walls of causeway, bed dams, trenches for water supply and drainage works for laying pipes and sewers, pits and avenue trees, trial pits and pits for poles and towers and toe wall for revetment.		
4		An extra 50% over the rate of ordinary excavation in all soils, the rock classification given above shall be allowed for drains, channels and canal having bed width 1.25 metre and below. The extra percentage is applicable only for depth upto 2 metre; the depth being measured from the bottom of excavation.		
5		An extra 25% over the rate of ordinary excavation in all the soils and rock classification given above shall be allowed for drains, channels and canal having bed width 1.25 metre to 2 metre. The extra percentage is applicable only for depth upto 2 metre. The depth being measured from the bottom of excavation.		
OPEN WELL EXCAVATION				
1		Upto 2 metre diameter of wall 10% excess will be allowed over the basic rates of open well excavation.		
2		The rates do not include bailing charges. The de-watering is to be done departmentally. 10% of cost of excavation shall be allowed for de-watering for estimate purpose. Actuals (or) 10% wherever is less to be allowed for de-watering charges. For any expenditure above this percentage, prior approval of the Superintending Engineer should be obtained.		
3		For open well excavation for rates upto 12 metre depth, the progress should be X, 2X, 3X, 4X, 5X, 6X and for rates beyond 12 metre depth, the progress should be 8X, 10X, 12X, 14X, 16X & so on.		
SINKING OF WELLS				
1		For sinking of wells 20% excess will be allowed over the basic rates for wells of diameter 3 metre and above.		
2		For well sinking for rates upto 12 metre depth, the progress should be Y, 2Y, 4Y, 6Y, 8Y and 10Y and for rates beyond 12 metre depth, the progress should be 13Y, 16Y, 19Y and so on.		

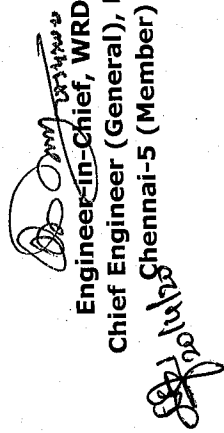
www.civilmartindia.co.in			Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
Sl. No.	Sch. Item No.	Description of Works		
3		The rates of sinking wells will apply when sinking is underwater at the initial depth itself. If water is met with at a lower depth, the rate applicable for open excavation shall be adopted upto the depth at which the water is met with. Beyond that the rate for the portion underwater shall be the rate for the previous stage under open well excavation plus 2Y.		
4		A schematic working sheet for open well excavation and sinking of wells for deriving the rates is given below:		
Open Well	Depth in metres	Sinking of Wells		
X	2	Y		
2X	4	2Y		
3X	6	4Y		
4X	8	6Y		
5X	10	8Y		
6X - 12 metre	12	10Y		
8X	14	13Y		
10X and so on	16	16Y and so on		
Note: X - Basic rate for open well excavation				
Note: Y - Basic rate for sinking well				
LIFT CHARGES - CONCRETE - BRICK OR STONE MASONRY ABOVE OR BELOW GROUND LEVEL				
A	Concrete above ground level			
B	Brick or Stone Masonry above ground level			
	The extra rates as allowed for building works are applicable to the irrigation and road works. The extra rates may be allowed for the structure beyond 1 metre from ground level			
A	Concrete above ground level			
B	Brick or Stone Masonry above ground level			
	The above extra rates are applicable to building, irrigation and road works. The extra rates may be allowed for the structure beyond 1.50 metre from ground level. (The depth is to be reckoned from 1.50 metre below ground level).			


 20/4/20
**Engineer-in-Chief, WRD &
 Chief Engineer (General), PWD,
 Chennai-5 (Member)**


 20/4/20

ANNEXURE-IV
RATES FOR CONVEYANCE OF MATERIALS BY HEAD LOAD

Sl. No.	Description of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)		
			LEAD		LIFT
			Above 10m and upto 100m	Add extra for every additional 100m or part thereof	Add extra for every 1m height or part thereof for more than 2m lift
1	Rough Stone, Broken Stone Jelly, Cut Stone, RCC Slab, Sand-Cement Block, Wooden Scantling, Wooden Plank	cum.	101.20	42.00	10.95
2	Lime, Lime Stone, Laterite, Brick Jelly, Earth, Sand, Gravel, Surki, Pond Ash (Wet / Dry), Crushed Stone Sand, Stone Dust	cum.	53.80	42.00	8.20
3 a	Mangalore Tiles	1000 Nos.	109.70	55.10	13.85
b	Machine Pressed Tiles	2000 Nos.	109.70	55.10	13.85
c	Hydraulic Pressed Mosaic Flooring Tiles	1500 Nos.	109.70	55.10	13.85
d	Terrace Bricks, Flat Tiles and Pan Tiles	2500 Nos.	109.70	55.10	13.85
e	Bricks	1000 Nos.	109.70	55.10	13.85
4	Cement, AC Sheet, Bitumen, Asphalt, Tar	MT	99.90	55.10	10.95
5	Steel	MT	167.90	67.50	13.85
Note:					
1	Fraction of 100 metres to be rounded off to the nearest 100 metres.				
2	The rates indicated in the table shall be applicable only to inaccessible places (i.e.) the places wherever the Bullock Carts cannot move [Chief Engineer (General), Memo No. CTO (A) / 38153 / 89, dated 03.02.1989].				
3	For an initial lead of 10 metre and initial lift of 2 metre, no charge towards head load is allowable.				
4	The Basic Rate adopted under this Head, "Annexure-IV - Rates of Conveyance of Materials by Head Load" is exclusive of all taxes and GST.				



 Engineer-in-Chief, WRD &
 Chief Engineer (General), PWD,
 Chennai-5 (Member)

ANNEXURE-V

CONVEYANCE TABLE

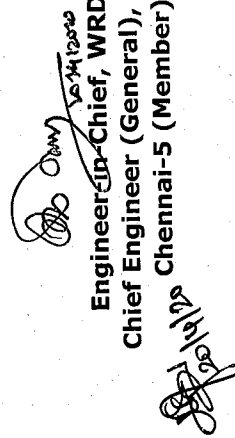
(A). RATES FOR CONVEYANCE OF MATERIALS BY ROAD IN PLAINS

Sl. No.	Distance in kilometre	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)					Bricks II Class Chamber Burnt Bricks (Table Moulded / Ground Moulded), Fly Ash Bricks (1000 Nos.)
		Cement, Steel (1 MT)	Lime Stone, Laterite, Brick Jelly, Wood Work, Pond Ash (Wet / Dry), Stone Dust (One cubic metre)	Rough Stone, Bond Stone, Cut Stone, Broken Stone Jelly, Sand, Gravel, Surki, Earth, Crushed Stone Sand (One cubic metre)	Third Class Country Bricks (Kiln Burnt) (1000 Nos.)	Mangalore Tiles (1000 Nos.), Machine Pressed Tiles (2000 Nos.), Hydraulically Pressed Mosaic Flooring Tiles (1500 Nos.)	
1	2	3	4	5	6	7	8
1	Co-efficient	1.00	1.10	1.60	1.35	1.80	2.25
2	Add for every extra 1 Km and part thereof.....						
a	0 - 10 Km.	6.51	7.14	10.40	8.78	11.70	14.62
b	10 - 20 Km.	5.57	6.12	8.90	7.51	10.02	12.52
c	20 - 40 Km.	4.79	5.27	7.67	6.45	8.62	10.77
d	40 - 80 Km.	4.13	4.55	7.19	5.57	7.42	9.30
e	Above 80 Km.	3.77	4.15	6.03	5.09	6.78	8.48
4	Loading Charges	116.30	55.50	38.00	54.60	54.60	54.60
5	Unloading Charges	116.30	55.50	38.00	54.60	54.60	54.60
6	Add above extra for inter state works	23.40	25.70	37.60	31.60	42.20	53.00
Note:							
1	The above rates do not include stacking charges [as per Circular Memo No.230 Wks. IV (2) / 62-3, dt.10.06.62 of Chief Engineer (General)].						
2	For conveyance of materials on cart track, allow 20% extra over the above rates excluding loading and unloading charges.						
3	For sandy and slusly soil tracks, add 50% extra over the above rates excluding loading and unloading charges.						
4	The quantity for payment towards conveyance of earth in Column (5) is for the pit measured quantity at the site of excavation only.						
5	For conveyance of laterite, broken stone jelly, etc., through lorries, the rates provided are for the volume with voids.						
6	For all materials which finds place in Column, 3,4,5,6,7 and 8 above, necessary incidental charges, loading charges and unloading charges have been included already under their basic cost furnished below the head "Rates of Materials" itself. Hence, no separate incidental charges, loading and unloading charges shall be allowed for the above materials.						
7	The Basic Rate adopted under this Head, "Annexure-V - (A). Rates of Conveyance of Materials by Road in Plains" is exclusive of all taxes and GST.						


 Engineer-in-Chief, WRD &
 Chief Engineer (General), PWD,
 Chennai-5 (Member)

ANNEXURE-V
CONVEYANCE TABLE
(B). RATES FOR CONVEYANCE OF MATERIALS BY ROAD IN HILLS

		Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)					
Sl. No.	Distance in kilometre	Cement, Steel (1 MT)	Lime Stone, Laterite, Brick Jelly, Wood Work, Pond Ash (Wet / Dry), Stone Dust (One cubic metre)	Rough Stone, Bond Stone, Cut Stone, Broken Stone Jelly, Sand, Gravel, Surki, Earth, Crushed Stone Sand (One cubic metre)	Third Class Country Bricks (Kiln Burnt) (1000 Nos.)	Mangalore Tiles (1000 Nos.), Machine Pressed Tiles (2000 Nos.), Hydraulically Pressed Mosaic Flooring Tiles (1500 Nos.)	Bricks II Class Chamber Burnt Bricks (Table Moulded / Ground Moulded), Fly Ash Bricks (1000 Nos.)
1	2	3	4	5	6	7	8
1	Co-efficient	1.00	1.10	1.60	1.35	1.80	2.25
2	Add for every extra 1 Km and part thereof.....						
a	0 - 10 Km.	13.02	14.28	20.80	17.56	23.40	29.24
b	10 - 20 Km.	11.14	12.24	17.80	15.02	20.04	25.04
c	20 - 40 Km.	9.58	10.54	15.34	12.90	17.24	21.54
d	40 - 80 Km.	8.26	9.10	14.38	11.14	14.84	18.60
e	Above 80 Km.	7.54	8.30	12.06	10.18	13.56	16.96
Note:							
1	The above rates do not include stacking charges [as per Circular Memo No. 230 Wks. IV (2) / 62-3, dated 10.06.1962 of Chief Engineer (General)].						
2	For conveyance of materials on cart track, allow 20% extra over the above rates excluding loading and unloading charges.						
3	For sandy and slusly soil tracks, add 50% extra over the above rates excluding loading and unloading charges.						
4	The quantity for payment towards conveyance of earth in Column (5) is for the pit measured quantity at the site of excavation only.						
5	For conveyance of laterite, broken stone jelly, etc., through lorries, the rates provided are for the volume with voids.						
6	For all materials which finds place in Column, 3,4,5,6,7 and 8 above, necessary incidental charges, loading charges and unloading charges have been included already under their basic cost furnished below the head "Rates of Materials" itself. Hence, no separate incidental charges, loading and unloading charges shall be allowed for the above materials.						
7	The Basic Rate adopted under this Head, "Annexure-V - (B). Rates of Conveyance of Materials by Road in Hills" is exclusive of all taxes and GST.						


 Engineer-in-Chief, WRD &
 Chief Engineer (General), PWD,
 Chennai-5 (Member)

RATES OF OTHER CONSTRUCTION MATERIALS

Note: No extra on cost, conveyance charges shall be allowed for all the items included under this category. The rates approved therein are applicable at site of work

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
1	Water Proofing Compound	Kg	41.90
2	Mild Steel Flats of all sizes	Kg	40.45
3	Mild Steel Square Rods of all sizes	Kg	40.45
4	First Quality Design Ceramic Tiles of all Colours		
i	305mm x 305mm x 6mm	Each	45.00
ii	200mm x 200mm x 6mm	Each	19.80
iii	200mm x 100mm x 6mm	Each	10.70
5	First Quality Plain Ceramic Tiles of all colours		
i	305mm x 305mm x 6mm	Each	32.20
ii	200mm x 200mm x 6mm	Each	14.40
iii	200mm x 100mm x 6mm	Each	7.40
6	Joint free Rectified Glazed Ceramic Flooring Tiles 305 x 305 x 8mm	Each	53.00
7	Solar Reflective Ceramic Tiles of size		
a	305mm x 305mm x 7mm thick	sqm.	464.00
b	305mm x 240mm x 6mm thick	sqm.	383.00
8	Dadoing Ceramic Tiles of size 300mm x 450mm x 8mm	Each	57.20
9	Dadoing Ceramic Tiles of size 300mm x 600mm x 10mm	Each	85.00
10	First Quality White Glazed Tiles		
i	150mm x 150mm x 6mm	Each	7.70
ii	100mm x 200mm x 6mm	Each	6.70
11	First Quality Colour Glazed Tiles		
i	150mm x 150mm x 6mm	Each	8.90
ii	100mm x 200mm x 6mm	Each	7.70
12	First Quality Colour Glazed Tiles with Printed Design		
i	150mm x 150mm x 6mm	Each	10.50

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
ii	100mm x 200mm x 6mm	Each	9.50
13	Colour Designed Glazed Tiles 300 x 200 x 6mm	Each	28.30
14	Stain Free Nano Polish Vitrified Tiles 600 x 600 x 8mm	sqm.	603.00
15	Double Charged Vitrified Tiles 600 x 600 x 8mm	sqm.	900.00
16	Double Charged Vitrified Tiles 800 x 800 x 10mm	sqm.	1150.00
17	Pre-polished Concrete Anti-Skid Step Tiles of 20mm thick	sqm.	599.00
18	Rubber Moulded Hydraulic Pressed Paver Block		
a	83mm thick	sqm.	542.00
b	63mm thick	sqm.	451.00
19	TAMIN Paver Block of size – Supply at site		
a	60mm thick	sft.	50.60
b	80mm thick	sft.	60.60
20	Tactile Paver Type of New Tek BT Yellow Colour Ceramic Tiles of size 305 x 305 x 15mm for Vision Impairment Person	sqm.	2000.00
21	Providing and filling the tile joint with epoxy grout with following specification: Surface preparation including cleaning the joint to be free from dust and loose particles. Providing masking tape on either side of the tile joint edges and providing sealing the tile gap with epoxy tile joint grout and finishing neatly and as directed by the departmental officers. The rate inclusive of cost of materials and labour, etc., complete.	sqm.	430.00
	New Item		
22	SRC Cement (Sulphate Resistant Cement)	50 Kgs. / Bag	300.00
23	Slag Cement	50 Kgs. / Bag	270.00
24	White Cement	Kg	22.20
25	Colour Cement (White Cement mixed with Colouring Pigments)	Kg	26.80
26	Multi-Colour Marble Chips of all grades / sizes	Bag	89.40
27	White Marble Slab (Adanga) 18mm to 20mm Thick		
i	4'0" x 2'0" and above	sqm.	1378.00
ii	2'0" x 2'0" or 2'0" x 1'0" or 1'0" x 1'0"	sqm.	688.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
28	Granite Tiles - (Superfine Polished with Machine Cut Edges) of size 2'0" x 1'0" or 1'0" x 1'0" or 1'0" x 0'6" of 10 mm thick		
a	Jet Black	sqm.	844.00
b	Ruby Red, Raw Silk	sqm.	756.00
c	Sinthetic Grey, Paradise and similar varieties	sqm.	714.00
29	Granite Slabs (Super Fine Polished with Machine Cut Edges) of sizes 4'x2' and above 18mm to 20mm thick		
a	Jet Black	sqm.	1706.00
b	Ruby Red, Raw Silk	sqm.	1595.00
c	Sinthetic Grey, Paradise and similar varieties	sqm.	1434.00
d	Fine Polished Steel Grey Granite Slab 1200mm x 600mm, 16mm to 18mm Thick	sqm.	1484.00
e	Fine Polished Blue Pearl Granite Slab 1200mm x 600mm, 16mm to 18mm Thick	sqm.	7423.00
30	Flamed Steel Grey Granite Slab 1200mm x 600mm, 16mm to 18mm Thick	sqm.	1797.00
31	Flamed Ruby Red Granite Slab 1200mm x 600mm, 16mm to 18mm Thick	sqm.	1908.00
32	Nosing for Granite Slab		
a	Single Nosing	RM	191.90
b	Double Nosing	RM	363.00
33	Polished Shahabad Stone Slabs 20mm thick with Machine Cut Edges of size below 2'0" x 2'0"	sqm.	312.00
34	Polished Shahabad Stone Slabs of 20mm thick with Machine Cut Edges of size 2'0" x 2'0" and above	sqm.	370.00
35	Polished Rajasthan Kota Stone Slabs of 20mm thick with Machine Cut Edges of size below 2'0" x 2'0"	sqm.	476.00
36	Polished Rajasthan Kota Stone Slabs of 20mm thick with Machine Cut Edges of size 2'0" x 2'0" and above	sqm.	540.00
37	Dolphur Stone Slabs - Semi Polished with Machine Cut Edges of all sizes		
a	40mm thick	sqm.	412.00
b	20mm thick	sqm.	375.00
38	PVC Trims (Beading)	RM	90.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
39	Terracota Jally of size 20 x 20 x 0.75mm	Each	38.30
40	Aluminium Strips of size 40mm wide x 1.5mm thick	RM	32.30
41	Brass Strips of size 40mm wide x 1.5mm thick	RM	67.90
42	Glass Strips of size 40mm wide and 4mm thick	RM	15.40
43	Marble Tiles 3mm thick	sqm.	664.00
44	Red Oxide - Superior quality for floor finish	Kg	142.40
45	Decorative Pressed Tiles of 12mm thick of all sizes and shapes	sqm.	1055.00
46	Exterior Emulsion Paint - Water Based Primer (Liquid)	Litre	148.40
47	Alkali Resistant Distemper Primer	Litre	133.00
48	Sandtex Matt	Litre	155.00
49	Vinaratex or Equivalent Textured Coat	sqm.	199.90
50	Best Lac Polish / French Polish	Litre	259.00
51	Varnish	Litre	266.00
52	Cotton Waste	Kg	10.20
53	Cement Based Hydraulically Pressed Anti skid Tiles (Pattern Design) - 20mm thick	sqm.	500.00
54	Marble Powder	Kg	4.49
55	Polishing Stone		
i	Rough	Each	65.80
ii	Medium	Each	87.90
iii	Fine / Nice	Each	100.70
56	Oxalic Acid	Kg	38.10
57	Tupentine	Litre	23.30
58	Mansion polish	400 gram	146.30
59	Poly Sulphide	Kg	173.60
60	Primer for Expansion Joints	Kg	149.30
61	Filler Material	sqm.	142.40
62	Bond Breaker	RM	3.68
63	PVC Water Bar 150mm wide with Single Bulb	RM	282.80
64	Plain GI Sheet 0.8mm thick (22 Gauge)	sqm.	357.50

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
65	Phil Plug	Each	4.95
66	GI Screws		
i	30mm x 6mm	Each	1.26
ii	19mm x 6mm	Each	0.80
67	GI Limpet / Cup Washers	Each	1.86
68	Bitumen Washers 15mm dia	Each	1.11
69	Asbestos Cement Pipe - 100mm dia	3 RM	141.30
70	AC Shoe - 100mm dia	Each	44.80
71	AC Bend - 100mm dia	Each	51.30
72	AC Cylindrical Cowl - 100mm dia	Each	77.00
73	CI Brackets for AC Pipe 100mm dia	Each	19.70
74	CI Grating - 100mm dia	Each	31.50
75	Asbestos Cement Fully Corrugated Sheet - 6mm thick	sqm.	186.00
76	Asbestos cement plain sheet		
i	6mm thick	sqm.	166.90
ii	4mm thick	sqm.	115.60
	New Item		
77	Supplying and fixing Shade Net (Green Net) for under construction of high rise building	sqm.	66.00
78	Asbestos Cement Adjustable Ridges	Pair	192.60
79	GI "J" or "L" Bolts with Nuts 6mm dia	Each	3.84
80	Steel - Special Extruded Sections for Steel Windows and Ventilators conforming to ISS 7452 / 1990 including fabrication charges	Kg	61.50
81	CRCA Pressed Steel Box Section 18 Gauge or 1.25mm thick for Door Frames including providing holes and fixing wooden blocks for fixing furniture and fittings		
a	With one coat of Red Oxide priming coat	RM	353.00
b	With Powder Coated Primer	RM	376.70
82	Aluminium Extruded Sections (for Doors, Windows, Ventilators, Partitions, False Ceiling etc) including charges for anodising for 15 micron thickness		
a	Natural Colour Matt Finish	Kg	287.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
b	With Powder Coating of any colours	Kg	307.00
83	Aluminium Extruded Box Section for Staircase Hand Rails including charges for anodising for 15 micron thickness - Natural colour matt finish	Kg	359.00
84	Rubber Beading for Aluminium Glazed Doors	RM	37.60
85	Rubber Beading for Aluminium Glazed windows	RM	28.60
86	PVC / Woollen Felt for Aluminium Doors 6mm thick	RM	7.55
87	Pivot for Aluminium Door	Set	147.40
88	Hydraulic Door Closer of various sizes of approved quality using Aluminium Extruded Section Body Tubular Type Universal Hydraulic Door Closer with Double Speed Adjustment like HARDWYN (make) 'GAZEL' (or) Equivalent (with ISI Monogram)	Each	890.00
89	Hydraulic Floor Springs of various sizes, Double Acton Hydraulic Floor Spring of approved quality, brand, manufacture as per BIS Standards for doors including cost of cutting floors as required, embedding in to floors and stainless steel cover plates with aluminium pivot and single piece MS sheet outer box with side plate etc., capable of taking upto 130 kg. weight from door shutter, like HARDWYN make (U-32) or its Equivalent with ISI monogram.	Each	2055.00
90	Lock for Aluminium Doors	Each	251.00
91	Lock for Aluminium Sliding Windows	Each	62.80
92	Aluminium Grill of Standard Pattern (Diamond Shape) - 10mm thick including 'F' (or) 'H' Section	sqm.	1835.00
93	Aluminium Grill of Standard Pattern (Diamond Shape) - 6mm thick including 'F' (or) 'H' Section	sqm.	1485.00
94	Bolts and Nuts 10mm dia for False Ceiling	Each	5.55
95	Rawl Plugs for False Ceiling	Each	9.40
96	PVC Roller for Sliding Windows	Each	13.85
97	Synthetic Resin - Fevicol or Equivalent (Phenol Formal Dehide Based Resin)	Kg	195.90
98	Butt Hinges with Nylon Washers of various sizes of Length and Width (with required screws)		
a	125mm x 30mm	Each	79.10
b	100mm x 30mm	Each	63.50
c	75mm x 30mm	Each	43.60

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
d	50mm x 30mm	Each	35.15
	New Items		
99	Brass Hinges		
a	125mm x 30mm	Each	210.00
b	100mm x 30mm	Each	180.00
c	75mm x 30mm	Each	150.00
d	50mm x 30mm	Each	125.00
100	Tower Bolts of various lengths and diametre (with required screws)		
a	400mm long and 12mm dia	Each	149.70
b	300mm long and 12mm dia	Each	115.20
c	250mm long and 12mm dia	Each	86.30
d	200mm long and 12mm dia	Each	72.60
e	150mm long and 12mm dia	Each	57.20
f	100mm long and 10mm dia	Each	50.30
g	75mm long and 10mm dia	Each	35.10
	New Items		
101	Brass Tower Bolts		
a	400mm x 12mm	Each	1000.00
b	300mm x 12mm	Each	750.00
c	200mm x 12mm	Each	530.00
d	150mm x 12mm	Each	400.00
e	100mm x 10mm	Each	320.00
f	75mm x 10mm	Each	200.00
102	Aldrops of following lengths and diametre with required screws, bolts and nuts		
a	300mm long and 16mm dia	Each	185.20
b	250mm long and 16mm dia	Each	159.70
c	200mm long and 16mm dia	Each	108.10
d	200mm long and 12mm dia	Each	89.70

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
	New Items		
103	Brass Aldrops		
a	300mm x 16mm	Each	950.00
b	250mm x 16mm	Each	820.00
c	200mm x 16mm	Each	700.00
d	200mm x 12mm	Each	500.00
104	Handles "D" type of various sizes with required screws		
a	200mm long	Each	56.70
b	150mm long	Each	50.90
c	100mm long	Each	31.20
105	Ornamental Handles of various sizes with required screws		
a	200mm long	Each	146.30
b	150mm long	Each	97.50
c	100mm long	Each	53.80
	New Items		
106	Brass Ornamental Handles		
a	200mm	Each	390.00
b	150mm	Each	250.00
c	100mm	Each	180.00
107	Aluminium Door Stopper with Rubber Bush with required screws	Each	43.80
108	Rubber Bush - 40mm dia and 60mm long with required screws	Each	22.70
109	Mortice Lock (Godrej or Equivalent) with required screws with 3 Keys		
a	With Night latch	Each	530.00
b	Without Night latch	Each	394.00
c	Wire Nails	Kg	62.80
110	Teakwood Beading		
a	15mm x 12mm	RM	15.15
b	35mm x 12mm	RM	38.40

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
111	Teakwood Beading (Ordinary)		
a	30mm x 12mm	RM	31.90
b	25mm x 12mm	RM	25.60
112	Teakwood Beading - Ornamental / Design		
a	40mm x 12mm	RM	89.70
b	40mm x 15mm	RM	102.80
c	25mm x 12mm	RM	70.30
d	15mm x 12mm	RM	48.30
113	Medium Desity Fibre (MDF) Board - Exterior Grade, both sides pre-lamiated including external lipping with kiln dried soft wood 35mm thick	sqm.	2141.00
114	Medium Density Fibre (MDF) Board - Exterior Grade - both sides pre-laminated, 12mm thick	sqm.	1030.00
115	MDF Board Exterior Grade - Plain including external lipping with kiln dried soft wood		
i	35mm thick	sqm.	1747.00
ii	30mm thick	sqm.	1610.00
116	Medium Density Fibre (MDF) Board 12mm thick Exterior Grade with Melamine finish		
a	One Side Melamine Finish	sqm.	1090.00
b	Both Sides Melamine Finish	sqm.	1227.00
117	Medium Density Fibre (MDF) Board - Exterior Grade - Plain with teakwook external lipping alround		
a	35mm thick	sqm.	1878.00
b	30mm thick	sqm.	1666.00
118	Solid Core Flush Shutters with teakply on both side with teakwook lipping alround 35mm thick	sqm.	2211.00
119	Solid Core Flush Shutters with teakply on one side and commercial ply on other side with teak wook lipping alround 35mm thick	sqm.	1944.00
120	Solid Core Flush shutters with commercial ply on both side with teakwook lipping alround 35mm thick	sqm.	1666.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
121	Providing Cup-board Shutter using termite / water proof plywood of 19mm thick over which laminated sheet of 0.8mm thick fixed inside the shutter and 1mm thick fixed in the outside of the shutter using fevicol along with necessary furniture fittings, such as, hydraulic hinges, tower bolt, handles, multi purpose locks etc., as directed by the Departmental Officers. The design pattern, water proof plywood, laminate sheet and other materials should be got approved from the Executive Engineer before use on work.	sqm.	4949.00
122	Solid PVC Door Shutters using 19 Gauge 19mm MS square tubes for styles and outer frames. 15mm MS square tubes for top, lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC Sheets. Shutter using 5mm thick solid PVC Sheets for panelling shall rigidly fixed in position including necessary furniture and fittings. The over all size of styles shall be 50mm x 30mm. The over all size of top rail, lock rail and bottom rail shall be 75mm x 30mm. The over all size of frames shall be 50mm x 45mm with suitable rebate for housing the shutter		
a	Solid panel PVC door with frame	sqm.	2828.00
b	Solid Panel PVC Door without Frame	sqm.	2383.00
123	Supplying and fixing of PVC Sliding Door with Roller	sqm.	3030.00
124 a	FRP Door Sutter with FRP Door Frames made out of FRP Sheets of 3mm thick of over all size 65mm x 50mm with rebate suitably reinforced using MS Angle / Flats, cost of holdfasts and Solid Core FRP Shutter Panel of 5mm thick and hollow core frames of 3m wall thickness for styles and rails etc., of sizes specified by Engineers	sqm.	3918.00
b	Excluding door frames	sqm.	3009.00
125 a	PVC Panelled door Shutters Hollow Type - 200mm x 20mm panels with 1mm wall thickness for panels and styles and rails of suitable size with 2mm wall thickness suitably reinforced using MS Angle / Flat including cost of necessary aluminium hinges and other furniture fittings	sqm.	2014.00
b	Excluding Door Frames	sqm.	1701.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
126	RCC Door Frame of 100mm x 65mm cross sectional size with necessary rebate for housing the shutters, manufactured with cement concrete of grade not less than M20 using 10mm and below graded stone jelly and using steel reinforcement as per CE (B) Circular instructions	RM	275.00
127	Stainless Steel (Salem Stainless Steel) Door Frame (Box Section using Stainless Steel Plate of 1mm thick) of size 100mm x 60mm with a rebate of 30 / 35mm x 15mm on one side of the frame including supplying and fixing dovetail splayed end stainless steel Hold fast etc	RM	900.00
128	Stainless Steel (Salem Stainless Steel) Door Frame (Box Section using Stainless Steel Plate of 1.6mm thick) of size 100mm x 60mm with a rebate of 30 / 35mm x 15mm on one side of the frame including supplying and fixing dovetail splayed end stainless steel hold fast etc	RM	1217.00
129	Supplying and Erecting Pull and Push Type Rolling Shutter with ISI make of approved size and section using 18 GI sheet. The shutter shall be painted with one coat of red oxide primer and the rate is inclusive of hood covers, transportation charges etc		
A	ROLLING SHUTTERS (WITH ISI MONOGRAM)		
a	Manually Operated (up to 8 sqm. Area)	sqm.	2131.00
b	Gear Operated Type (from 8 sqm. to 12 sqm. Area)	sqm.	2373.00
c	Electrically Operated Type (exceeding 12 sqm. Area)	sqm.	2575.00
B	ROLLING GRILLS (WITH ISI MONOGRAM)		
a	Manually Operated (up to 8 sqm. Area)	sqm.	2171.00
b	Gear Operated Type (from 8 sqm. to 12 sqm. Area)	sqm.	2444.00
c	Electrically Operated Type (exceeding 12 sqm. Area)	sqm.	2716.00
130	Barbed Wire - 10 Gauge - Two Ply and Four Pronged (Galvanised)	1 Kg or 6 RM	60.90
131	Chain Link - 2" x 2" using 10 Gauge Galvanised Iron Wire (of all sizes)	sqm.	157.20
132	Pin Headed / Fluted / Figured Glass 3mm thick	sqm.	222.20
133	Plain Glass - 4mm thick	sqm.	300.90
134	Plain Sheet Glass - 5.5mm thick	sqm.	355.50

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
135	Metal Screws (for Aluminium Doors, Windows etc)		
i	75mm x 8mm	Each	2.17
ii	38mm x 6mm	Each	1.52
iii	19mm x 8mm	Each	1.06
iv	19mm x 6mm	Each	0.80
136	Cement Paint (First Quality)	Kg	48.95
137	Oil Bound Distemper	Kg	72.40
138	Acrylic Distemper	Kg	83.60
139	Primer for Plastic Emulsion Paint	Litre	144.70
140	Plastic Emulsion Paint (First Quality)	Litre	289.80
141	Wood Primer	Litre	144.70
142	Synthetic Enamel Paint for Wood Work	Litre	234.30
143	Red Oxide Primer for Iron Work	Litre	134.30
144	Synthetic Enamel Paint for Iron Work	Litre	223.20
145	Melamine Polish	Sqm.	636.00
146	Exterior Emulsion Paint	Litre	297.90
147	Painting the wall with Texture Finish Paint including labour charges	sqm.	404.00
148	White Wall Putty Powder	Kg.	27.00
148 a	Sand Paper (Water Proof Abrasive Sheet)	Each	10.00
148 b	8" Putty Blade	Dozen	120.00
148 c	6" Putty Blade	Dozen	90.00
149	300mm dia RCC Hume Pipe	RM	2206.00
150	GI Pipes "B" Class		
i	65mm dia	RM	244.40
ii	50mm dia	RM	209.00
iii	40mm dia	RM	163.00
iv	32mm dia	RM	151.40
v	25mm dia	RM	128.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
vi	20mm dia	RM	98.60
vii	15mm dia	RM	69.80
151	GI Specials		
A	Union		
i	50mm dia	Each	266.30
ii	40mm dia	Each	197.50
iii	32mm dia	Each	127.50
iv	25mm dia	Each	98.60
v	20mm dia	Each	69.80
vi	15mm dia	Each	58.10
B	GI Elbow		
i	50mm dia	Each	128.00
ii	40mm dia	Each	98.60
iii	32mm dia	Each	87.00
iv	25mm dia	Each	58.10
v	20mm dia	Each	25.40
vi	15mm dia	Each	15.90
C	GI Bend		
i	50mm dia	Each	116.30
ii	40mm dia	Each	87.00
iii	32mm dia	Each	69.80
iv	25mm dia	Each	52.00
v	20mm dia	Each	23.20
vi	15mm dia	Each	13.60
D	GI TEE		
i	50mm dia	Each	139.80
ii	40mm dia	Each	110.20
iii	32mm dia	Each	98.60
iv	25mm dia	Each	81.40
v	20mm dia	Each	34.70
vi	15mm dia	Each	28.60

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
E	GI COUPLING		
i	50mm dia	Each	69.80
ii	40mm dia	Each	58.10
iii	32mm dia	Each	46.50
iv	25mm dia	Each	28.60
v	20mm dia	Each	15.90
vi	15mm dia	Each	13.60
F	GI REDUCER		
i	50mm x 40mm dia	Each	93.20
ii	40mm x 32mm dia	Each	69.80
iii	32mm x 25mm dia	Each	52.00
iv	25mm x 20mm dia	Each	28.60
v	20mm x 15mm dia	Each	20.30
vi	40mm x 25mm dia	Each	52.00
vii	32mm x 20mm dia	Each	40.40
G	GI REDUCER ELBOW		
i	50mm x 40mm dia	Each	110.20
ii	40mm x 32mm dia	Each	93.20
iii	32mm x 25mm dia	Each	69.80
iv	25mm x 20mm dia	Each	52.00
v	20mm x 15mm dia	Each	40.40
vi	40mm x 25mm dia	Each	72.70
vii	32mm x 20mm dia	Each	57.60
H	GI REDUCER TEE		
i	50mm x 40mm dia	Each	139.80
ii	40mm x 32mm dia	Each	116.30
iii	32mm x 25mm dia	Each	98.60
iv	25mm x 20mm dia	Each	75.30
v	20mm x 15mm dia	Each	69.80
vi	40mm x 25mm dia	Each	104.70
vii	32mm x 20mm dia	Each	81.40

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
I	GI HEX NIPPLE		
i	50mm dia	Each	87.00
ii	40mm dia	Each	69.80
iii	32mm dia	Each	58.10
iv	25mm dia	Each	43.70
v	20mm dia	Each	34.70
vi	15mm dia	Each	23.20
152	Gun Metal Gate Valve (Heavy Duty)		
i	65mm dia	Each	1494.00
ii	50mm dia	Each	1217.00
iii	40mm dia	Each	959.00
iv	32mm dia	Each	746.00
v	25mm dia	Each	582.00
vi	20mm dia	Each	344.00
	Note: Gate Valves should be used only in delivery line to OHT Scour Pipe in OHT (for cleaning of OHT) where pressure pumping is involved. In all other cases only wheel valve should be used		
153	Gun Metal Wheel Valve (Heavy Duty)		
i	40mm dia	Each	640.00
ii	32mm dia	Each	503.00
iii	25mm dia	Each	345.00
iv	20mm dia	Each	237.00
v	15mm dia	Each	167.00
154	Brass Chromium Plated Screw Down Tap 15 / 12mm dia (Heavy Type)	Each	202.00
155	Brass Chromium Plated Pillar Tap (Heavy Type) - 15 / 12mm dia	Each	265.00
156	PVC Screw Down Tap Heavy Type 20mm dia	Each	80.00
157	PVC Screw Down Tap Heavy Type 15mm dia	Each	62.00
158	Chromium Plated Stop Cock 15mm dia	Each	148.40
159	Brass Chromium Plated Shower Rose - 100mm dia	Each	190.80

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
160	CP Wall Mixture Tap 3 in 1 system with Hand Showers	Each	4065.00
161	CP Two Way Bib Cock with Health Faucet	Each	2020.00
162	CP Shower Arm with Overhead Shower Rose	Each	1160.00
163	Wooden Plug, Clamp and Screws	Set	12.00
164	Shellac	100 gram	18.15
165	PVC Adhesive (Solution)	100 gram	34.00
	New Items		
166	UPVC Adhesive	100 Gram	80.00
167	CPVC Adhesive	100 Gram	110.00
168	Vajjram	Kg.	77.00
169	Thread Ball	Each	3.53
170	CP Heavy Duty Bottle Trap 32mm	Each	1085.00
171	CP Angle Cock Tap	Each	762.00
172	Oriya Type Indian Water Closet 580mm x 440mm with "P" or "S" Trap		
i	White	Set	1180.00
ii	Colour	Set	1504.00
173	European Water Closet with "P" or "S" Trap with Double Flapped Seat and Seat Cover with Brass Hinges and 10 litre capacity PVC Low Level Flusing Tank with all internal fittings		
i	White	Set	3030.00
ii	Colour	Set	3420.00
174	European Water Closet with "P" or "S" Trap with Double Flapped Seat and Seat Cover with Brass Hinges and 12.5 litre capacity Porcelain Low Level Flusing Tank with all internal fittings		
i	White	Set	4270.00
ii	Colour	Set	5140.00
175	PVC low level flushing tank with all internal fittings (wall mounting type)		
a	White - 10 litre capacity	Set	847.00
b	White - 7.5 litre capacity	Set	647.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
c	Colour - 10 litre capacity	Set	959.00
d	Colour - 7.5 litre capacity	Set	762.00
176	PVC Water Tank	Litre	8.60
177	SS Elbow Action Tap of size 15mm	Each	1515.00
178	SS Heavy Duty Long Body Tap 15mm	Each	1515.00
179	SS Swan Neck Tap	Each	1010.00
180	Wash Hand Basin of size 550mm x 400mm with all accessories such as Cast Iron Brackets, 32mm dia CP Waste Coupling, Rubber Plug and Chain, 32mm dia 'B' Class GI Waste Pipe, 15mm dia GM Wheel Valve, 15mm dia Nylon Connection, 15mm dia Brass Nipples, 15mm CP Pillar Tap etc		
i	White without Pedastal	Set	1640.00
ii	White with Pedastal	Set	1974.00
iii	Colour without Pedastal	Set	2196.00
iv	Colour with Pedastal	Set	2429.00
181	White Porcelain Sink of size 600mm x 450mm x 200mm with 32mm dia 'B' Class GI Waste Water Pipe and 32mm dia CP Waste Coupling	Set	2105.00
182	Cuddapah Slab Sink of size 600mm x 450mm x 200mm with 32mm dia 'B' Class GI Waste Water Pipe & 32mm dia CP Waste Coupling	Set	755.00
183	Cuddapah Slab Sink of size 600mm x 600mm x 200mm with 32mm dia 'B' Class G.I. waste water pipe & 32mm dia C.P. waste coupling.	Set	1000.00
	New Items		
184	Stainless Steel Sink		
a	600mm x 600mm x 200mm	Each	9000.00
b	600mm x 450mm x 200mm	Each	7000.00
185	Lipped Mouth Porcelain Flat Back Urinal with all accessories such as 32mm dia Bell Mouth PVC Connection, 15mm dia GM Wheel Value, 15mm dia 'B' Class GI Waste Water Pipe, 15mm dia Nylon Connection, 15mm dia Brass Nipple etc.		
i	White	Set	922.00
ii	Colour	Set	1055.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
186	Supplying and fixing of SS Sink of size 1200 x 550 x 180mm	Each	18180.00
187	Supplying and fixing of Granite Sink of size 600 x 600 x 250mm	Each	4066.00
188	Supplying and fixing of Ornamental Type White Glazed Porcelain Corner 'L' Type Wash Hand Basin of size 350mm	Each	3484.00
189	Supplying and fixing of Oval Shape Wash Hand Basin of size 560 x 450mm	Each	2843.00
190	Supplying and fixing of White Glazed Porcelain Oval Shape Special Type Urinal of size 382 x 398 x 601mm	Each	9872.00
191	Porcelain Soap Dish of size 150mm x 150mm x 50mm		
i	White	Each	192.40
ii	Colour	Each	263.60
192	Brass Chromium Plated Soap Tray of size 150mm x 100mm	Each	161.90
193	Brass Chromium Plated Towel Rail 60cm long and 20mm dia with Brackets	Set	263.80
194	SS Towel Rack 600mm long with Lower Hanger	Each	1515.00
195	Anodised Aluminium Towel Rail 60cm long and 20mm dia with Brackets	Set	128.00
196	PVC / Fibre Glass Framed 5.5mm thick Mirror, Shelf Type with Hard Board Backing		
i	600mm x 450mm	Each	466.60
ii	500mm x 400mm	Each	375.70
197	Special Type Mirror of size 1000 x 780mm	Each	2525.00
198	Stoneware Gully Trap of size 150mm x 100mm with Cast Iron Double Gratings	Each	167.10
199	Cast Iron Nahini / Floor Trap with Stainless Steel Grating		
i	100mm x 75mm	Each	274.20
ii	75mm x 50mm	Each	214.80
200	PVC Nahini / Floor Trap with PVC Grating		
i	100mm x 75mm	Each	151.50
ii	75mm x 50mm	Each	132.70

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
201	First Quality Cast Iron Pipe		
i	150mm Dia	RM	994.00
ii	100mm Dia	RM	599.00
iii	75mm Dia	RM	478.00
iv	50mm Dia	RM	339.00
202	First Quality Cast Iron Specials		
A	Plain Bend		
i	150mm dia	Each	538.00
ii	100mm dia	Each	262.00
iii	75mm dia	Each	202.00
iv	50mm dia	Each	154.00
B	Bend with Door		
i	150mm dia	Each	623.00
ii	100mm dia	Each	315.00
iii	75mm dia	Each	262.00
iv	50mm dia	Each	208.00
C	Plain TEE		
i	150mm dia	Each	1078.00
ii	100mm dia	Each	478.00
iii	75mm dia	Each	327.00
iv	50mm dia	Each	225.00
D	TEE with Door		
i	150mm dia	Each	1139.00
ii	100mm dia	Each	551.00
iii	75mm dia	Each	382.00
iv	50mm dia	Each	273.00
E	"Y" Junction with Door (Single)		
i	150mm dia	Each	1197.00
ii	100mm dia	Each	599.00
iii	75mm dia	Each	418.00
iv	50mm dia	Each	298.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
F	"Y" Junction with Door (Double)		
i	150mm dia	Each	1320.00
ii	100mm dia	Each	670.00
iii	75mm dia	Each	502.00
G	COWL		
i	150mm dia	Each	327.00
ii	100mm dia	Each	196.00
iii	75mm dia	Each	131.00
iv	50mm dia	Each	101.00
203	Stoneware Pipe		
i	150mm dia	Each (0.6.RM)	100.00
ii	100mm dia	Each (0.6.RM)	62.20
204	Stoneware Specials		
A	Stoneware TEE		
i	150mm dia	Each	162.90
ii	100mm dia	Each	125.60
B	Stoneware Bend		
i	150mm dia	Each	138.00
ii	100mm dia	Each	99.60
C	Stoneware "Y" Junction		
i	150mm dia	Each	168.00
ii	100mm dia	Each	125.10
205	Spun Yarn	Kg	12.90
206	Hemp Yarn	Kg	11.60
207	Gunny Tape / Kithan	sqm.	11.60
208	Tar	Kg	40.30
209	Bitumen Felt 15mm thick Pad	sqm.	230.00
210	Supplying, fabricating, erecting and fixing Hilux (or) Equivalent Board False Ceiling upto a ceiling height of 4.5m from floor level		
a	Using Hilux Board Plain Sheets (10mm thick)	sqm.	954.00
b	Using Perforated Sheets (10mm thick)	sqm.	976.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
211	Supplying and laying Glass Wool for insulation including necessary packing materials		
a	Using 50mm thick Glass Wool	sqm.	385.00
b	Using 25mm thick Glass Wool	sqm.	205.00
	New Items		
212	Supply and installation of Anutone (or) Euivalent Brand of Acoustical False Ceiling of subtex nubby, square edge, glass fibre core fully encapsulated ceiling tile of size 595 x 595 x 15mm having volume density 120 Kgs / m ³ , weight 1.8 / 2.4 / 3 kg / m ² which is suspended by using 0.3mm thick skelet trelis T15 metal grid system. Skelet trelis T15 metal grid system of 600 x 600mm module includes skelet WA15 W30 wall angle with unequal flanges of 15 / 19mm, length 3000mm, fixed along the perimeter of walls with the help of nylon sleeves and suitable fasteners at 300mm centers. Then suspend the skelet MT15 W36 MainT with flange width 15mm, height 32mm and length 3600mm, from the soffit slab with help of soffit cleat and wire rod with leveling spring clip at 1200mm centres. Skelet CT15 W12 CrossT with flange width 15mm, height 26mm and length 1200mm is interlocked into the pre-cut slots in the Main T15 at 600mm centers in the perpendicular direction to the Main T15. Finally, the skelet CT15W06 CrossT with flange width 15mm, height 26mm and length 600mm are interlocked into the precut slots in the CT15W12 CrossT in direction parallel to the Main T15 to result in 600 x 600mm module. The subtex nubby square edge of size 595 x 595 x 15mm shall be placed into the grid size of 600 x 600mm. Ensure arrow marks behind the tiles are oriented in one direction to achieve uniform shade. The systems to achieve noise reduction coefficient not less than 0.9 NRC, so as to have an neat appearance as directed by the department offices. The cost includes, cost of material, cost of labour, scaffolding, transportation, conveyance, etc. complying to standard specication.	sqm.	1700.00
213	Supply and installation of Anutone (or) Equivalent Brand of Acoustical False Ceiling of Sisoli Serene / Slate Spirts / Slate Polka Mineral Fibre/ GRG Core Ceiling Tiles of size 595 x 595 x 15mm having volume density 270 kgs / m ³ , weight 4kg / m ² which is suspended by using 0.3mm thick skelet trelis T15 metal grid system. The skelet trelis T15 metal grid system of 600 x 600mm module includes skelet WA15 W30 wall angle with unequal flanges of 15 / 19mm, length 3000mm, fixed along the perimeter of walls with the help of nylon sleeves and suitable fasteners at 300mm centers. Then suspend the skelet MT15 W36 MainT with flange width 15mm, height 32mm and length 3600mm, from the soffit slab with help of soffit cleat and wire rod with leveling spring clip at 1200mm centres. Skelet CT15 W12 CrossT with flange width 15mm, height 26mm and length 1200mm is interlocked into the pre-cut slots in the Main T15 at 600mm centers in the perpendicular direction to the Main T15. Finally skelet CT15 W06 CrossT with flange width 15mm, height 26mm and length 600mm are interlocked into the precut slots in the CT15 W12 CrossT in direction parallel to the Main T15 to result in 600 x 600mm module. Sisoli Serene / Slate Spirts / Slate Polka of size 595 x 595 x 15mm shall be placed into the grid size of 600 x 600mm. The systems to achieve noise reduction coefficient not less than 0.5 NRC, so as to have an neat appearance as directed by the department offices. The cost includes, cost of material, cost of labour, Scaffolding, transportation, conveyance, etc., complying to standard specication.	sqm.	950.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
214	Supply of laying of Anutone (or) Equivalent Brand of Acoustical Insulation of Sound Synth Polywool, 50mm thick made from recycled poly fibre and fully recyclable, surface density 1000 g / m², weight 1.0 kg / m² in form of rolls of 600mm wide and 15m in length, adhered to surface with stick S7 adhesive or held in position with chicken wire mesh etc., complying to standard specification.	sqm.	420.00
215	Providing Polymer Coating (Water Proof Coating) for sunken portion of toilet with following specification and the surface shall be cleaned to remove all dust, foreign, matters loose materials or any other deposits of contamination by rubbing with wire brush. Slurry: Dry blend and polymer liquid blend shall be mixed into the desired ratio as per recommendation of the supplier. The mix shall be stirred thoroughly until no bubbles remain in the mix. Any lumps found in mix shall be removed. Apply first coat of polymer modified cementitious slurry by brush on wet cleaned surface. After drying, second coat shall be applied on the first coat as directed by the departmental officers etc. The rate inclusive of cost of materials and labour, etc., complete.	sqm.	323.00
216	Providing Cornice Work for Gyp Board False Ceiling	RM	186.80
217	8mm thick Calcium Silicate Board Designed and Perforated for False Ceiling	sqm.	1515.00
218	Termite Proof/Water Proof Plywood 19mm thick	sqm.	1313.00
219	Laminated Sheet 0.8mm thick (inside)	sqm.	242.00
220	Laminated Sheet 1mm thick (outside)	sqm.	404.00
221	Squatting Urinal	Set	446.00
222	CI Brackets for fixing the Sink	Set	105.90
223	Swan Neck Tap	Each	248.00
224	Brass Screws (30 x 6mm)	Each	2.37
225	Brass Screws (75 x 10mm)	Each	4.80
226	Special Clamp, Teakwood Plugs and Screws	Set	21.20
227	PVC Clamp, Teakwood Plugs and Screws	Set	8.35
228	Teakwood Plug	Each	1.06
229	Teakwood Plug (50 x 50 x 100mm)	Each	5.30
230	Manhole Cover 60 x 60cm (Heavy Duty) with Frame	Each	1828.00
231	Welding Charges		
a	50mm	Each	2.07
b	40mm	Each	1.61

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
232	Add for Painting / Tarring for Hex Nipple	Each	2.77
233	Labour Charges for fixing Cuddapah Slab to Cup-Board	sqm	45.10
234	Hire Charges for Polishing Machinery	Day	224.20
235	Electricity Charges	Unit	11.70
236	Supplying and fixing in position White / Colour Glazed Model Floor Mounted European Water Closet of best quality and approved make with 100mm "P" or "S" trap connecting with CI pipe of 100mm dia / PVC pipe of 110mm dia, double flapped rigid PVC black seat and seat cover with CP brass hinges including cost of white cement, cement for packing, spun yarn, teak wood plugs, brass screws, etc., including supplying and fixing 10 litres capacity PVC / 12.5 litres capacity porcelin low level flushing tank with a pair of CI brackets, etc., complete with all fittings, such as, 15mm brass ball valve with polythene float with brass handle, union coupling connected by means of 40mm white PVC flush hand using indian adopter joint including all internal fittings, such as, 15mm bras connections, 15mm GM wheel valve, 15mm brass nipple (2 Nos.), 15mm nylon connection, TW plugs, screws and also giving necessary connection to the PVC pipe and painting the CI brackets with 2 coats of approved paint over one coat of red oxide primer, dismantling the masonry and re-doing the dismantled masonry to original condition, etc., complete complying with standard specifications. (The EWC and flushing tank with all accessories should be got approved by the Executive Engineer before use on works) Floor Fitting	Each	4974.00
237	Supplying and fixing in position White / Colour Special Delux Model Glazed Cascade Type Parryware / Hindware / Equivalent Wall Mounted European Water Closet of best quality and approved make with 100mm "P" or "S" trap connecting with CI pipe of 100mm dia / PVC pipe of 110mm dia, double flapped rigid PVC black seat and seat cover with CP brass hinges including cost of white cement, cement for packing, spun yarn, teak wood plugs, brass screws, etc., including supplying and fixing 10 litres capacity PVC / 12.5 litres capacity porcelin low level flushing tank with a pair of CI brackets, etc., complete with all fittings, such as, 15mm brass ball valve with polythene float with brass handle, union coupling connected by means of 40mm white PVC flush hand using indian adopter joint including all internal fittings, such as, 15mm bras connections, 15mm GM wheel valve, 15mm brass nipple (2 Nos.), 15mm nylon connection, TW plugs, screws and also giving necessary connection to the PVC pipe and painting the CI brackets with 2 coats of approved paint over one coat of red oxide primer, dismantling the masonry and re-doing the dismantled masonry to original condition, etc., complete complying with standard specifications. (The EWC and flushing tank with all accessories should be got approved by the Executive Engineer before use on works) with 10 litres capacity flushing tank with all internal dual flush fittings with normal seat cover Wall Fitting	Each	5830.00
238	Vinyl Flooring 2mm thick	sqm.	542.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
239	Manufacturing, Supplying and Fixing of Stainless Steel Hand rails for staircase using 50mm dia 304L Grade Stainless Steel pipe of 1.60mm thick at required locations to a height of 900mm from finished floor level welded to 38mm dia Stainless Steel pipe post of 1.00mm thick as vertical at 900mm centre with 2 Nos. of 25mm dia intermediate horizontal stainless steel pipe of 1.60mm thick in between. The vertical pipe has to be welded to the 100 X 100 X 6mm MS base plate encased in the base concrete. The rate is inclusive of the charges for cutting, bending, welding, grinding, polishing, conveyance, electrical charges, etc. complete	sqm.	5428.00
240	Manufacturing, Supplying and Fixing of Stainless Steel Hand rails for staircase near wet riser using 50mm dia 304L Grade Stainless Steel pipe of 1.60mm thick will be provided with tubular supports made of 304L Grade Stainless Steel pipe of 25mm dia of 1.60mm thick welded to the railing. The supports will be grouted into the wall and provided with 93.00mm thick Stainless Steel circular base plate of 304 Grade. The rate shall included for grouting into concrete with necessary supporting arrangements the hand rail in floor polishing buffing, bonding, cutting, grinding, conveyance, welding charges, electrical charges, etc. complete	RM	1807.00
241	PVC mould CI Steps for Sump	Each	226.00
242	Vertical Blinds		
a	Ordinary	sqm.	904.00
b	Premium	sqm.	1357.00
243	Stainless Steel Health Faucet	Each	994.00
244	High Density Fibre (HDF) Board	sqm.	2168.00
245	Providing and fixing of Aluminium Composite Panel (ACP) 4 sided having 50 x 25 x 1.50mm frame work vertical and horizontals out of specially designed extruded sections withstand wind pressure of 180 Kg/sq.m and fabricated fixed at all level elevation and heights. The extruded section cutting and fixing required space extruded section shall be of 6063 and alloy of BSH 9 confirming T is - 63400 rate shall included to fix the main frame with necessary clamps, fasteners, bolt nuts etc. The main frame of extruded section shall be of 22843 & 22739 (H9) grade conforming to BS 4174 (or) IS 8147. Rate shall included 4mm thick ACP sheet (0.25 + 3.5 + 0.25) alstrong or equivalent fixing with spacer tape and the ACP sheet bounded with special type structural sealant of dow corning 789 or equivalent in dust free conditions the gaps between ACP sheet to be filed with whether sealant and backer rod or 12mm foam sheet to ensure water and air tightness in all complete complying with standard specification as directed by the departmental officer	sqm.	4265.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
246	Designing the Semi Unitised Structural Glazing System with open groove joint as per design intent, preparation of shop drawings for approval, supply, fabricate, erect as per approved shop drawings at all floor levels and all floor heights including conducting field test as per the test criteria set out in the particular specification (Methodology should be got approved by the Dept. Officials.) Design the framing system (i.e. male & Female frame) to support vision panels, spandrel panels either with glass or aluminium composite panel, openable, window panels on a continuous framing supported between floors. Also design the split framing unutilized glazing system in case of strip or punched windows with vision panel proposed with either insulated / Monolithic glass, groove width in the system both in horizontal and vertical shall not be more than 20mm. Glazing of panel shall be done only at factory at the controlled atmosphere	sqm.	4747.00
247	Bitumen Pad		
a	12mm thick	sqm.	471.00
b	20mm thick	sqm.	705.00
248	Providing Strong Room Door for Sub-Treasuries	Each	292900.00
249	Pre-painted Galvanized Iron Windows (Air Tight Model) with Grill and Glass: Providing and fixing Ajanta Cave Model Window fabricated from roll formed sections made of galvanized steel colour coated / powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams / sqm.) with total coated thickness of 0.60mm. Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns. Dimensions of sections: Sections for shutter should be of 46 x 46mm and external frame should be of 46 x 52mm. Section for glass beading should be of 18 x 25mm and centre mullion should be of 46 x 70mm. Fixing details: The frame and shutter sections should be cut to length and mitre joined with corner bracket made of CRCA electro plated. Mullion section should be joined with frame / mullion using nylon mullion cap. Ethyl Propylene Diamine Monomer (EPD) Gasket should be used all around glass in shutter between frame and glazed shutter and both sides of fixed glass.....	sqm.	5400.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
	<p>Accessories: Handle made of high grade aluminium powder coated and with nylon receiver. Gaskets made of Ethyl Propylene Diamine Monomer (EPDM). Corner brackets made of CRCA with zinc phosphating. Mullion caps made of glass filled nylon.</p> <p>Glass: Glass shutter and fixing glass portion should be provided with a glass of 5mm plain float glass.</p> <p>Grill: Windows should be provided with grill made of 10mm square MS bars welded to 12mm x 5mm flat at 4" intervals. Total grill unit should be power coated and fixed to window frame with screws.</p> <p>The above frame should be fixed to brick / concrete masonry by using nylon self-expanding caps and driving MS electro plated 80mm long screws into the caps through frames.</p>		
250	<p>Pre-painted Galvanized Iron Windows (Semi Air Tight Model) with Grill and Glass:</p> <p>Providing and fixing Eco 3000 Series Window fabricated from roll formed sections made of galvanized steel colour coated / powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams / sqm.) with total coated thickness of 0.58mm.</p> <p>Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns.</p> <p>Dimensions of sections: Sections for frame should be of 48 x 50mm, section for glazed shutter frame should be 47 x 20mm and section for fixed glass bead should be of 12 x 12mm.</p> <p>Fixing details: The frame and shutter frame sections should be cut to length and mitre joined with polypropylene corner bracket. Mullion section should be joined with frame / mullion using nylon mullion cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter.</p> <p>Accessories: Each glazed shutter should be provided with SS pivot hinges - 1 set, Polypropylene handle - 1 No. with receiver and aluminium peg stay powder coated - 1 No.</p> <p>Glass: Glass shutter and fixing glass portion should be provided with a glass of 4mm Pinhead Glass.</p> <p>Grill: Windows should be provided with grill made of 10mm square MS bars welded to 12mm x 5mm flat at 4" intervals. Total grill unit should be power coated and fixed to window frame with screws.</p> <p>Window Frame should be fixed to brick masonry / concrete masonry by using Nylon self-expanding caps and driving MS electr oplate 80mm long screws into the caps through frames.</p>	sqm.	5050.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
251	<p>Pre-Painted Galvanized Iron Windows with Glass, Grill & Fly Mesh:</p> <p>Providing and fixing Windows from roll formed sections made of galvanized steel powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams / sqm.) with total coated thickness of 0.58mm.</p> <p>Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns.</p> <p>Dimensions of sections: Section for frame should be of 72mm x 55mm, section for mullion should be of 72mm x 50mm, section for shutter frame should be of 47mm x 20mm, section of fixed glass bead should be of 12mm x 12mm and section for fly mesh shutter frame should be of 40mm x 20mm.</p> <p>Fixing details: Section for frame, glazed shutters and mesh shutters should be cut to length and mitre joined with polypropylene corner brackets, mullion section should be joined with frame / mullion using mullion cap.. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter and fixed glass. Spoon profile should be used around Fly mesh to fix mesh in mesh shutter.</p> <p>Accessories : Each glazed shutter and mesh shutter should be provided with SS pivot hinges - 1 set, Polypropylene handle - 1 No. with receiver and aluminium powder coated peg stay - 1 No.</p> <p>Glass: Glass shutter and fixed glass portion should be provided with a glass of 4mm pinhead glass.</p> <p>Mesh: Mesh shutter should be provided with a SS 32 gauge fly mesh of 304 grades with 144 holes per square inch.</p> <p>Grill: Windows should be provided with grill made of 10mm square MS bars welded to 5mm x 12mm flat at 4" intervals. Total grill unit should be powder coated and fixed to window frame with screws.</p> <p>Window frame should be fixed to brick / concrete masonry by using nylon self-expanding caps and driving MS electro plated 80mm long screws into the caps through frames.</p>	sqm.	6660.00
252	<p>Pre-Painted Galvanized Iron Two Track Sliding Window:</p> <p>Providing and fixing pre-painted two track, two panel sliding system fabricated from roll formed sections made of galvanized steel powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams / sqm.) with total coated thickness of 0.58mm.</p> <p>Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns.</p> <p>Dimensions of sections: Section for frame two track should be of 59mm x 44mm, section for shutter should be of 35mm x 49mm for window, section for euro groove should be of 25mm x 24mm and for lap strip should be 30mm x 41mm.</p> <p>Fixing details: The frame and shutter sections should be cut to length, joined with corner brackets made of glass filled nylon. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass.</p> <p>Accessories: Corner brackets made of glass filled nylon gasket made of Ethyl Propylene Diamine Monomer (EPDM). Locking system should be of single pin locking for Windows. Single wheel rollers for windows should be provided.</p> <p>Glass: Glass shutter and fixed glass portion should be provided with a glass of 4mm pinhead glass.</p> <p>Window frame should be fixed to brick / concrete masonry by using nylon self-expanding caps and driving MS electro plated 80mm long screws into the caps through frames.</p>	sqm.	4848.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
253	<p>Pre-Painted Galvanized Iron Three Track Sliding Windows:</p> <p>Providing and fixing pre-painted three track, three panel sliding system fabricated from roll formed sections made of galvanized steel colour coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams / sqm.) with total coated thickness of 0.58mm.</p> <p>Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns.</p> <p>Dimensions of sections: Section for outer frame three track should be of 92mm x 44mm, section for shutter should be of 35mm x 49mm for window, section for euro groove should be of 25mm x 24mm and for lap strip should be 30mm x 41mm.</p> <p>Fixing details: The frame and shutter sections should be cut to length, joined with corner brackets made of glass filled nylon. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass.</p> <p>Accessories: Corner brackets made of glass filled nylon. Gasket made of Ethyl Propylene Diamine Monomer (EPDM). Locking system should be of single pin locking for windows. Single wheel rollers for windows should be provided.</p> <p>Glass: Glass shutter and fixed glass portion should be provided with a glass of 4mm pinhead glass.</p> <p>Window frame should be fixed to brick / concrete masonry by using nylon self-expanding caps and driving MS electro plated 80mm long screws into the caps through frames.</p>	sqm.	5353.00
254	<p>Pre-Painted Galvanized Iron Fixed Louvered Ventilators with Glass and Grill:</p> <p>Providing and fixing louvered ventilator fabricated from roll formed sections made of galvanized steel colour coated / powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams / sqm.) with total coated thickness of 0.58mm.</p> <p>Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns.</p> <p>Dimensions of sections: The section for external frame should be of 57mm x 33mm.</p> <p>Fixing details: The section should be cut to length, joined with profile to profile component.</p> <p>Accessories: Glass holding flanges made of glass filled nylon. Glass: Louvers should be provided with 4mm pinhead glass. Grill: Ventilator should be provided with grill made of 10mm Square MS bars to 12mm x 5mm flat at 4" intervals. Total grill unit should be powder coated and fixed to ventilator frame with screws.</p> <p>The above frames should be fixed to brick / concrete masonry walls and floor by means of self-expanding screws.</p>	sqm.	4848.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
255	<p>Pre-Painted Galvanized Iron Door Frame:</p> <p>Providing and fixing door frames from sections made of galvanized steel powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 217 with zinc of 120 grams / sqm.). The factory made section should be with a powder coating of pure polyester powder of 50-60 microns thick with total coated thickness of 1.25mm. Size of door frame section should be of 105 x 60mm with a rebate of 37mm to accommodate 35mm thick door shutter. The frame section should have groove to insert gasket. 2 tie rods of 10mm tor steel to be provided at bottom. Provision for aldrop, mortise lock to be made in the section as per the instruction of Engineer-in-Charge. The frame section should be cut to length, and joined by way of welding.</p> <p>Note: 1.25mm thick (Total coated thickness tolerance as per IS 513)</p>	Rm	585.00
256	<p>Pre-Painted Galvanized Iron windows (Air Tight Model) with Acrylic Sheet & Grill:</p> <p>Providing and fixing Ajanta Cave Model window fabricated from roll formed sections made of galvanized steel colour coated / powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams / sqm.) with total coated thickness of 0.6mm.</p> <p>Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns.</p> <p>Dimensions of sections: Sections for shutter should be of 46 x 46mm and external frame should be of 46 x 52mm. Section for glass beading should be of 18 x 25mm and centre mullion should be of 46 x 70mm.</p> <p>Fixing details: The frame and shutter sections should be cut to length and mitre joined with corner bracket made of CRCA electro plated. Mullion section should be joined with frame / mullion using nylon mullion cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter, between frame and glazed shutter and both sides of fixed glass.</p> <p>Accessories: Handle made of high grade Aluminium Powder coated and with nylon receiver. Gaskets made of Ethyl Propylene Diamine Monomer (EPDM). Corner brackets made of CRCA with zinc phosphating. Mullion caps made of glass filled nylon.</p> <p>Glass: Glass shutter and fixing glass portions should be provided with a glass of 6mm acrylic sheet.</p> <p>Grill: Windows should be provided with grill made of 10mm square MS bars welded to 12mm x 5mm flat at 4" intervals. Total grill unit should be powder coated and fixed to window frame with rivet. The above frame should be fixed to brick / concrete masonry by using nylon self-expanding caps and driving MS electro plated 80mm long screws into the caps through frames.</p>	sqm.	5757.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
257	<p>Structural Glazing: Providing and fixing structural glazing fabricated from roll formed sections made of galvanized steel colour coated (Base steel as per IS 513 of 'D' quality, galvanized as per IS 277 with Zinc of 120 grams / sqm.) with total coated thickness of 0.72mm. The glass holding section made of 304 grade SS of 0.6mm thick. Galvanized steel sections are to be used as stiffeners inside the colour coated steel / powder coated sections as per the design requirement. Design calculations are made to suit wind pressures as given in IS 875.</p> <p>Paint specifications: Primer coat with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns or powder coated with pure polyester powder upto 50-60 microns thick.</p> <p>Dimensions: The section should be of 37 x 53mm for frame vertical, 37 x 53mm for frame horizontal section and section for reinforcement should be of 31 x 55mm. glass holding section should be of 37 x 37mm for top and bottom grids in between should be of 37 x 18mm.</p> <p>Accessories: Brackets made of CRCA powder coated / electro plated should be used to fix vertical at top and bottom and vertical to slab as per site requirement. Polyurethane brackets should be used to connect horizontal section to vertical sections.</p> <p>Silicone: Natural cure, with good UV resistance to be used.</p> <p>The above frame should be fixed to brick / concrete masonry by using nylon self-expanding cap and driving MS electro plated 80mm long screws into the caps through frames.</p> <p>Glass: 5mm reflective Saint Gobain OR equivalent.</p>	sqm.	5757.00
258	<p>Pre-painted Galvanized Iron Fixed Louvered Ventilators with Glass, Mesh and Grill: Providing and fixing louvered ventilator fabricated from roll formed sections made of galvanized steel colour coated / powder coated (Base Steel as per IS 513 of 'D' quality, Galvanized as per IS 277 with Zinc of 120 grams / sqm.) with total coated thickness of 0.58 mm</p> <p>Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and black coated with alkyd backer of 5-7 microns.</p> <p>Dimensions of section: The section for external frame should be of 57 x 33mm.</p> <p>Fixing details: The section should be cut to length and joined with profile to profile component.</p> <p>Accessories: Glass holding flanges made of glass filled nylon.</p> <p>Glass: Louvers should be provided with 4 mm thick pinhead glass.</p> <p>Mesh: Mesh should be provided with a SS 32 gauge fly mesh of 304 grades with 144 holes per square Inch.</p> <p>Grill: Ventilator should be provided with grill made of 10mm square MS bars welded to 12mm x 5mm flat at 4" intervals. Total grill unit should be powder coated and fixed to window frame with screws.</p> <p>The above frames should be fixed to concrete / masonry walls and floor by means of self expanding screws.</p>	sqm.	5151.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
259	<p>Providing UPVC (Un-Plasticized Polyvinyl Chloride) Door: Providing and fixing casement doors fabricated from un-plasticized polyvinyl chloride (uPVC) sections.</p> <p>Profiles: The profiles should be three chamber system which provides high insulation properties with outer frame 60mm x 55mm with an outer wall thickness of 2.4mm. The window unit should be designed with all corner joints mitred and fusion welded. Windows should be steel reinforced with 25 x 24 x 25mm steel reinforcement with a thickness of 1mm to have dimensional stability. The sash should be of 60 x 102mm. The mullion should be of 60 x 74mm. The profiles should have co-extruded seals.</p> <p>Hardware: All the hardware like friction stays, handles should be screwed with self tapping screws. The handles, locks should be designed so that they cannot be released from outside.</p> <p>Glazing: The window system should be glazed with 5mm plain float glass / 6mm bison lam</p> <p>Installation: The profiles should be cut to length and welded 45 degrees. The window should be designed such that the water drainage does not pass through the reinforcement chamber. The window system should be fixed directly to the plastered brick wall using self expanding nylon plug and driving ms electroplated screws into plug.</p>	sqm.	7070.00
260	<p>UPVC Window</p> <p>Specification:</p> <p>Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Windows of casement type (open) from the profile the size of outer frame 60mm x 58mm and shutter profile are reinforcement with GI/1mm 125GSM and 100% corrosion free, the profiles are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with over all the edges of frame and shutter the shutter will be provided with Espag multi power point locks and also it operates as handle. The corners and joints should be welded and cleaned. Radiations free pin headed plain or brown colour glass 4mm thick should be provided to the shutter and it should not allow leakage of water even at most ranging storms and should have key lockable action, security protective hinges, strong locking systems and as per size for arresting noise and energy loss. The connecting mechanism between sash and outer frame that enables opening of the window. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames. The window should be got approved from the Executive Engineer before use on work</p>	sqm.	6363.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
261	UPVC Ventilator Specification: Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Louvered Ventilators of from the profile the size of outer frame 60mm x 58mm and shutter profile size of 60 x 78mm both profiles are reinforced with GI/1mm 125GSM and 100% corrosion free, the profile are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with all over the edges of frame and shutter. The corners and joints should be welded and cleaned. Radiations pin headed glass 4mm thick should be provided in the louvers. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames. The ventilator should be got approved from the Executive Engineer before use on work	sqm.	6893.00
262	FOAMED PVC DOOR FRAME Specification: Providing factory made pre-laminated FPVC (Formed Polyvinyl Chloride) Door Frame of the size 105 x 40mm with a wall thickness of 10mm made out of extruded rigid FPVC profile mitre joined with 6 Nos. of 5mm long screw. The door frame shall be fixed to the wall by using 80mm long screws through the frame with the help of PVC fasteners of 3 Nos. to be provided for each vertical member, GI stiffeners of ('U' channel of size 29 x 9, 1mm, 150mm long) - 3 Nos. at hinge point, frame reinforcement of ('U' GI channel of size 46 x 22 x 0.6mm), bottom tie rod of ('U' GI channel size of 15 x 15 x 1mm), etc., complete complying with the standard specification. The door frame should be got approved from the Executive Engineer before use on work	RM	451.00
263	ABS DOOR / EQUIVALENT Specification: Providing of 35mm thick factory made pre-laminated ABS (Acrolynitrile Butadiene Styrene) Door Shutter moulded in different designs, consisting of all round frame made out of water proof solid foam PVC bar of size 20 x 32mm, reinforced by 32 x 32mm - 2 Nos., for vertical made out of LVL (Laminated Veneer Lumber), core material of 32mm thick high density craft paper honey comb board, sandwiched on both sides with pre-laminated ABS sheet thickness of 1.5mm. PVC edge banding of size 0.45mm on the vertical sides. Hardware made out of steel coated butterfly hinges - 3 Nos., for each shutter and ISI make SS round lock complete for finished item of work, complete complying with the standard specification. The door shutter and frame should be got approved from the Executive Engineer before use on work		
a	Plain Pre-laminated Door	sqm.	5830.00
b	Design Pre-laminated Door	sqm.	6150.00
264	Autoclaved Cellular Aerated Concrete Blocks		
a	600mm x 200mm x 100mm	Each	44.90
b	600mm x 200mm x 150mm	Each	67.40

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
c	600mm x 200mm x 200mm	Each	89.80
d	600mm x 200mm x 225mm	Each	101.50
e	Self Curing AAC Joint Mortar	40 Kg / Bag	600.00
f	Ready Mix Plaster for Rendering	50 Kg / Bag	297.90
265	Plasticizer / Super Plasticizer	Kg.	42.40
266	Making through holes in Plain or Reinforced Cement Concrete with Diamond Core Drilling System by using BOSCH power tools of following diamete - Depth per cm		
a	100mm	Each	318.00
b	150mm	Each	424.00
c	200mm	Each	476.00
267	Supplying and Installing Metal False Ceiling using Fire Retardant Galvanized Steel Sheet Plain lay in tile size 600mm x 600mm, 0.5mm thick, powder coated on external surface and shall have flange on all four sides to rest on the exposed grids. The system to give 600mm x 600mm centre to centre 'T'. The 'T' shall be not be dipped GI Tee Section 3600mm long main Tee. 24mm wide and cross Tee panels are formed by running main runner of 'T' section of size 30mm x 24mm powder coated at bottom at intervals with powder coating at bottom. Necessary provision of inter locking of 'T' section are made at required intervals not exceeding 1200mm. The main runners are suspended from the ceiling by means of 4mm dia. GI rods fixed to the ceiling using anchor fasteners of 50mm x 8mm size with nylon inset and hooked to the main rubbers using clips. The last hangers at end of each rubber should not be greater than 600mm from the adjacent wall. The last panel shall be placed at the side wall using edge profile 'L' Angle of size 20mm x 20mm and fixed to the side wall the false ceiling should be fixed of same level and should present a neat look	sqm.	3090.00
268	Supplying and fixing of SS Wall Cladding	sqm.	12625.00
269	Supplying and fixing of SS False Ceiling	sqm.	7575.00
270	Supplying and Fixing of Aluminium Dye Cast Letters of approved size and colour. The colour treatment process is achieved with MRF colour coat and then the processed coloured layer is set into the kiln for the heat treatment process for the following sizes		
a	Aluminium Dye Cast Letters 9" size	Each	1040.00
b	Aluminium Dye Cast Letters 6" size	Each	660.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
271	Providing Wall Panelling using one side teak wood sheet with melamine polishing with following specification. The frame using aluminium tubular section of size 50mm x 25mm x 2mm thick fixing horizontally and vertically in position with wall at interval of 0.60m in both directions, fixing water proof plywood of 12mm thick over the aluminium frame work with necessary screws. One side teak wood sheet of 3.5mm thick will be fixed over the plywood using fevical and finishing with melamine polishing and the rate inclusive of conveyance to site and labour charges and as directed by the Departmental Officers. The design pattern, water proof plywood, OST sheet and other materials to be used shall be got approved by the Executive Engineer concerned before use on work etc., complete.	sqm.	5724.00
272	<p>Providing and fixing Acoustic Wall Panelling (equivalent to Armstrong) in channelled wood works perforated panels of width 192mm, thickness of 15mm and length of 2400mm or as per required by the Departmental Engineer made of a high density fibre board with minimum 725 kg./m³ density substrate with a laminated facing as per the approved shade and finish and a melamine balancing layer on the reverse side. The boards shall have a special perforation pattern where the visible surface has a "Helmholtz" fluted perforation of 3mm width and 21mm of visible panel each. The edges of the panels shall be "tongue-and-grooved" to receive special clips for installation. The back of the perforated panel shall have sound absorbing non woven acoustical fleese having NRC of 0.52. The panels shall be mounted on special aluminium splines using clips provided by Armstrong and approved by the Engineer-in-Charge.</p> <p>Installation: Install aluminium box section (provided by others) of section 50mm x 25mm or as approved by the Engineer-in-Charge on the solid wall horizontally using screws and plugs at spacing of 600mm centre to centre. Screw the aluminium extruded keel for channelled wood works provided by Armstrong over the lowest and second aluminium section at an on centre distance of 600mm. Place the inside clip on the groove end of the panel along the aluminium keel and then place the tongue end of the next panel. Continue installing rows of panels by inserting the tongue into groove of the earlier inserted panel and progressively installing inside clips into the next keel till the actual height is achieved. Finish off the edges using wooden moulding of matching colour (provided by others). Installation to be carried out by Armstrong Trained Installation Team and installation should be carried out as per Armstrong Recommended Procedure.</p>	sqm.	8126.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
273	Supplying and fixing the Wall Panelling with the following specification fixing horizontally and vertically in position of wall. Fixing the water proof ply wood 9mm thick board over the country wood planks. Over the ply wood OST sheet of 4mm thick will be fixed with necessary screws and fevicol giving neat finish. The top will be finished with two coats of sanding polishing. The surface will be finished with necessary design as directed by the Departmental Officers. The rate inclusive of all materials, labour power and conveyance of materials to the work site, loading & unloading etc., and as per drawing and design by the Departmental Officers. The water proof ply wood and OST sheet and other materials to be used shall be got approved by the Executive Engineer concerned before use on work, etc., complete as per standard specification.	sqm.	5300.00
	New Items		
274	Supplying and installation of Anutone / Topakustiks / Idea Tec / Wood Fit / Equivalent Brand of Acoustic Wooden Wall Panelling with fire retardant grade pine wood fibre slats of size 2430 x 128 x 16mm with lineal perforation of 2mm back lined with soundtex black acoustical fleece 0.27mm thick, 63 g / m ² , tongue-groove edge for a seamless look, 5 test fire retardant grade with noise reduction coefficient not less than 0.75 NRC to absorb low and mid range frequencies from 125Hz to 4000Hz. GI strut CC50 frame work not more than 60 cm centre to centre using GI channels are fixed on the wall, over which an acoustic filling polywool material sound synth of 500 gsm density of 50mm thick has fixed and finally the panels are fixed and finished, so as to have an neat appearance as directed by the departmental offices. The cost includes cost of material, cost of Labours, scaffolding, transportation, conveyance, etc., complete complying to standard specification.	sqm.	5400.00
275	Supplying and installation of Anutone / Woodfit / Saint Gobian / Equivalent Brand of Acoustic Fabric Wall Panelling of stretch fabric NRC wall fabric system by using FR Grade NRC fabric of size 1400mm width shall be stretched by using CC 25 with infill of synth pf polywool 10 X 25 mm thick, rigid vinyl stretch tracks half wrap / full wrap 15mm (FS15) and midseam 15mm (FS15), strand board, synth PF infill with requisite accessories & tools. CC 50mm is first installed on the wall along with the marking lines with metal fasteners inserted at 300mm centers. FS15 tracks to be installed on wooden base, after applying stick S7 adhesive on both surfaces for a true and continuous secure grip, and heavy-duty fasteners at 150mm centers on one / both sides of stretch tracks. Strand square edge magnesite bonded pinewood fiber panels of size 600 x 2400 x 20mm having density 400 kg / m ³ , weight 4 kg which is fixed to wall with suitable fasteners. Sound synth PF polywool 10 x 25mm thick adhered on strand panel by using Stick 7 adhesive. Fabric of width 1400mm is then aligned to the stretch tracks by following the fabric thread line or pattern. The fabric is stretched and tucked into the stretch tracks and secure into the locking jaws so that it will be smooth, free of wrinkles with the tucking tools. The systems to achieve noise reduction coefficient not less than 0.85 NRC, so as to have an neat appearance as directed by the department offices. The cost includes, cost of material, cost of labour, scaffolding, transportation, conveyance, etc., complying to standard specification.	sqm.	5200.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
276	Supply and installation of Anutone / Tectum / Heradesign / Equivalent Brand of Acoustical Slim Wall Panelling of synth slim, polyfibre panels, core-pigmented, high-density, Synth PF rigid panels of size 1200 x 2400 x 9mm thick, volume density 210 - 230 kg / m ³ , weight 1.9-2.1 kg/m ² installed by using GI strut frame work system. The GI strut frame work systems includes GI strut CC 50 cross channel having thickness 0.7mm, length 3600mm, knurled web 50, depth 25mm and equal flanges 15mm is fastened to wall positioned horizontally in a regular manner at 600mm centre to centre. Anutone (or) Equivalent Brand of strand, square edge, magnesite bonded pine wood fibre core tiles of size 600 x 2400 x 10mm, density 400 kgs / m ³ , weight 8 kg / m ² are fastened to strut CC 50 cross channel with suitable fasteners. Longer edges of the panel should be perpendicular to strut CC 50 cross channel. Synth slim panels are then adhered to strand behind with stick S7 adhesive. The system is backlined with the acoustical infill SynthPF 500 gsm 50 thick. The systems to achieve noise reduction coefficient not less than 0.85 NRC, so as to have an neat appearance as directed by the department offices. The cost includes, cost of material, cost of labour, scaffolding, transportation, conveyance, etc., complying to standard specification.	sqm.	4900.00
277	Supply and installation of Anutone / Hera Design / Tectum / Equivalent Brand of Acoustical Fibre Based Wall Panelling of strand colour, kerfed edge magnesite bonded pine wood fibre core tiles of size 600 x 2400 x 20mm, density 400 kgs / m ³ , weight 8 kg / m ² installed by using GI strut frame work system with non-visible fasteners usin PVC strut H-Spline. The GI strut frame work systems includes GI strut CC 50 cross channel having thickness 0.7mm, length 3600mm, knurled web 50, depth 50mm and equal flanges 15mm is fastened to wall positioned horizontally in a regular manner at 600mm centre to centre. PVC strut H-Spline having sectional thickness 2mm and length 2400mm to be fixed perpendicular to the Strut CC50 cross channel at 600mm centers. The kerfed edge panels shall be then inserted into the strut H-Spline along their long edges of 2400mm against frame work to perfect fit with staggered short edges. The system is backlined with the acoustical infill Anutone or Equivalent Brand of SynthPF 500 gsm 50mm thick. The systems to achieve noise reduction coefficient not less than 0.9 NRC, so as to have an neat appearance as directed by the department officers. The cost includes, cost of material, cost of labour, scaffolding, transportation, conveyance, etc., complying to standard specification.	sqm.	3300.00
278	Providing and fixing of 1.2mm thick Lead Lining Door for X-Ray Rooms, Scanning Rooms with Mild Steel Door Frames 105mm x 57mm X 18 G and 12 G x 50mm Shutter made of GI with PWG finish and honey wool insulations with SS 101mm x 75mm x 3mm SS 304 Ball Bearings Butt Hinges, Mortice Sash Lock ML 100A, 50mm BS, 85mm centre, CL 207 : Key & Knob 70mm, 5 Pin Cylinder with Handle SS Finish (Dorma Make), Heavy Duty Door Closer, Frames fixed wih walls using Mortice Sash Lock ML 100A, 50mm BS, 85mm centre CL207: Key & Knob 70mm, 5 Pin Cylinder with Handle SS Finish (Dorma Make) all neccesary accessories and fittings as per the required and as per the approval for the Department Officer	sqm.	13785.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
279	<p>Post Tensioning Work:</p> <p>Design and execution of post tensioning work, including decoiling, the strands, cutting to the required lengths, supplying, laying of HT strands sheathing (GI corrugated ducts 0.3mm thick) jointing with couplers and inserting the strands, profiling, fixing liveend anchorages, including supply of stressing anchorages, suitable for 5-5 & 5-4 tendons, grout vents, making dead end anchorages, including flowering the strands, fixing tendon support bars, supervising the fixing of antibursting reinforcement, stressing the cables, end trimming, grouting the cables, with cement slurry, mixed with admixtures with required tools, plants, and machineries, and consumables etc. (Shuttering, concreting & reinforcement steel shall be paid under respective items) at all heights including all leads, lifts, coordination, with the post-tensioning agency, preparation of drawings, obtaining approval from the Employer / Architect etc. Rate to include providing water, power, cement and admixture for grouting, packing of sheathing and anchorages blockings, filling of recess pockets after stressing using grouts (cement slurry mixed with approved admixtures) including providing access to post tensioning at all heights including all leads, lifts etc., all complete and as approved and as directed by the Employer Architect but excluding shuttering, concreting & reinforcement steel which shall be payable under respective items separately.</p>	MT	195900.00
280	<p>Supplying, fabricating and fixing in position factory made Stainless Steel Flush Door Shutter 35mm thick using SS 304 Grade 1.6 mm thick, Stainless Sheets on both sides (Equivalent to IS 6911-04 Cr. 19, Ni 9) minimum 8-8.5% nickel and 18% chromium sourced from original stainless steel manufacturer with view panel size 30mm x 45mm made up of 6mm thick clear toughened glass fitted with double side adhesive tape and finished with dowconing silicon sealant, floor spring for each shutter, consealed tower bolt, suitable stainless steel locking arrangement and other necessary furniture fittings of approved quality. The vertical styles and other frame members and cross stiffeners shall be of same quality stainless steel box section of suitable size and thickness with proper core material as prescribed by the Departmental Officers</p>	Sqm.	37000.00
281	English Brass Letters		
a	25cm (10")	Each	900.00
b	37cm (15")	Each	1272.00
	New Items		
282	Tamil Brass Letters		
a	25cm	Each	1650.00
b	20cm	Each	1250.00
c	15cm	Each	2000.00
283	Emblem (15")	Each	12726.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
284	Manhole Cover SFRC		
a	600mm x 600mm	Each	2650.00
b	750mm x 750mm	Each	2913.00
c	900mm x 900mm	Each	3181.00
285	Incinerator for Ladies Bathroom (For School Works)	Each	33900.00
286	Polycarbonate Sheet 6mm thick	Sqm.	636.00
287	<p>Supplying and erecting in position of following liters capacity Industrial Model Reverse Osmosis Water-cum-Purifier to deliver Potable Water with World Health Organisation (WHO) Standards with following accessories.</p> <p>(a) MS Skid - 1 No. (b) Media 11054 No. Vessel with 20 nb Multiport Valve (with Media Pubble and Fine Sand and Activated Carbon Filling) set (c) Feed Pump 0.50 HP - 1 No. (d) Vertical Pump 2-9, 2.00 HP / Single Phase - 1 No. (e) Membrane 40 x 40 filmtech (or) equilaents / Osmonic (USA) - 1 No. and Membrane Pressure Vessel 40 x 40 -1 No. & Pressure Gauge - 2 Nos. (f) Flow Meter - 1 No. 20" Filter with Housing - 1 No., Low Pressure Switch - 1 No., Level Switch - 1 No. & Necessary CPVC Pipes and Fittings.</p> <p>The system shall be provide with Two Panel Control System with necessary Stainless Valves and Fittings and Float Control etc. The rate should be inclusive of all civil works, wherever necessary to install the System in position and intact.</p>		
a	50 Litres	Set	39540.00
b	250 Litres	Set	106000.00
c	500 Litres	Set	222000.00
d	1000 Litres	Set	370000.00
e	2000 Litres	Set	509000.00
	Medical Gas Arrangements		
288	<p>Medical Gas Copper Pipeline arrangement to hang on the wall of socket type connection installation of seamless cleaned and degreased non arsenical phosphorous gas copper pipe line with saddles complete with brazing work including all copper fitting (tee, elbow, reducer, coupling). The copper pipelines should be tested suitable for a steam of working pressure of 17.34 kg. / cm² (17 bar) and confirm to BS 864 Standard with specially made for brazed socket type connection. The medical gas copper pipeline should be tested as per standard and commissioning after painting as per International Code No. IS 2379/1963 Table-V. The pipelines installed at the various wings and floors etc., complete as directed by the Departmental Officers as per IS Code 12827 / 1989 & ISO 7396 / 1987 Specification.</p>		
a	10mm OD 0.90mm thick copper pipe	RM	311.00
b	15mm OD 0.90mm Thick Copper Pipe	RM	452.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
c	22mm OD 0.90mm Thick Copper Pipe	RM	755.00
d	28mm OD 0.90mm Thick Copper Pipe	RM	933.00
e	42mm OD 1.20mm Thick Copper Pipe	RM	2020.00
f	54mm OD 1.20mm Thick Copper Pipe	RM	2525.00
289	Gas Outlet Points: (Self sealing type - Single / DIN outlet pipe) with 'S' type bracket made up of copper and the out let of non-interchangeable for other gas. The outlet points are brazed with brass bracket with self sealing valve (Stainless Steel) with all accessories and complete set and are covered by plastic cover duly colour coated as per specific gas and button cover etc., complete as directed by the Departmental Officers and as per IS Code 12827 / 1989 & ISO 7396 / 1987 Specification.	Each	1155.00
290	Oxygen manifold arrangements of 2 banks x 12 cylinder each wing with semi automatic control panel which includes contact gauge 2 Nos., outlet pressure gauge, brass heavy duty IO x regulator 2 Nos. with suitable adopter, flexible SS Hose. Mainfold shall be of a construction and of a designs and material suitable for the service pressure in accordance with IS 1282-1989. Emergency alarms with illuminating display for low / high pipeline pressure and malfunctioning of system. 1) Mainfold top frame with provision for connecting 12 cylinders on right bank and 12 cylinders on left bank with high pressure interconnecting copper tubing, silver brazing, non return valve, fasteners and cylinder support middle angle frame for claping 2 x 12 cylinders and related fasteners. The O2 manifold should with stand a pressure of 140 kg. / CM2. The installation is commissioned after testing as per standards and painted as per International Code and as directed by the Departmental Officers as per IS Code 12827 / 1989 & ISO 7396 / 1987 Specification.	Each	164400.00
291	Nitrous Oxide Manifold Arrangements of 2 banks x 3 cylinder each wing, with automatic control panel which includes contact gauge 2 Nos., outlet pressure gauge, brass heavy duty IOX regulator 2 Nos. with suitable adopter, flexible SS hose. Mainfold shall be of a construction and of a designs and material suitable for the service pressure in accordance with IS 1282-1989. Emergency alarams with illuminating display for low / high pipeline pressure and malfunctioning of system. 1) 2 x 3 cylinder Nitrus Oxide Manifold should be suitable with stand a pressure of 140 Kg. / Cm2 and above along with high pressure copper annealed tail pipes with end brass adapter suitable for Nitrous Oxide Cylinders and manifold. 2) Top frame comprising of high pressure copper pipes of size 12mm ID 1.5mm wall thick with high pressure brass fittings made of high tensile brass and connections through non-return valves, high pressure copper tail pipes made of high pressure copper pipe size of 7mm ID x 1.5mm thick. 3) The design of middle and bottom frames should be provided to fit both round and flat bottom cylinders safely with fitted heavy duty regulator. The Manifold should be tested at 3500 pig as per IS 12827 / 1989 & ISO 7396 / 1987 Specification.	Each	93300.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
292	Brass Isolation Valve suitable for the copper pipe and should be of non lubricated 90 degree turn lever ball valve of reputed make, conneced in line with medical gas pipe line system by using suitable size brass valve adopter union, ferrule, nipple, rubber "O" ring, tapion lap and etc. All pipe line regulators shall be capable of controlling pipe line pressure and must compatible with the requirements specified in IS 12827-1989. All valves should be pneumatically tested for twice the working pressure for the gas line as per IS Code 12827 / 1989 & ISO 7396 / 1987 Sepecification.		
a	15mm Isolation Valve	Each	1199.00
b	22mm Isolation Valve	Each	1822.00
c	28mm Isolation Valve	Each	2088.00
d	42mm Isolation Valve	Each	3838.00
293	Theatre Vaccum Unit: The unit should comprise of two reusable 2000 ml shatter resistant bottle. Each made up of ply carbonate material and fully autoclavable at 134 degreee centigrade, should have a vacuum regulator with instant ON / OFF switch and tree way left, right or both. All the above items should be mounted on a trolley having free moving castor wheels. (As per IS 12827 / 19898 & ISO 7396 / 1987)	Each	10605.00
294	Flow Meter made up of Brass with Humidifier Bottle Flow Meter should be back pressure compressed and should be accurate gas flow measurement with control range 0-13 litres per minute. It should meet strict permission and dumbling standard. The meter body should be made of brass materials. The humidifier bottle should be made of unbreakable polycarbonate material and auto cleavable at 134 degree centigrade. The rate includes flow meter and its accessories (silicon tube with mask). The cost of materials including transport, etc., complete as per standard specification and as directed by the Departmental Officer and as per IS 12827 / 1989 and ISO 7396 / 1987 Specification.	Each	1350.00
295	Ward Vaccum Unit with Gauge both mounted on a collection jar of capacity 600 ml and with a wall bracket for mounting it on the wall. The collecion jar should be made of unbreakable polycarbonate materials which is fully auto cleavable at 134 degree centigrade as per standard specification and as directed by the Departmental Officers and as per IS 12827 / 1989 and ISO 7396 / 1987 Specification. The rate includes cost of silicon hose with SS nipple on either side.	Each	1616.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
296	Supply, installation, testing and commissioning of equivalent to Ingersoll Rand Reciprocating Air Cooled Type (10 HP + 5 HP) rating Vacuum Pump as per following provisions. As per IS 12827 / 1987 & ISO 7396 / 1987 Specification a) Vacuum pump - 10 HP - 1 set b) Electric motor - 5 HP -1 No. c) DOL Starter with OLR - 1 No. d) Vacuum switch - 1 No. e) Vacuum Gauge - 1 No. f) Control Frame with Fittings - 1 No. g) Suction Scrubber -1 No. h) V-Belts - 1 No. i) GI & MS Fittings - 1 No. j) Brass Fittings - 1 No. k) Exhaust Silencer - 1 No. l) Base frame for motor and vacuum pump - 1 set m) Pilot line with fittings - 1 set, Vacuum Room & Air Compressor Room Inside	Each	398900.00
297	Supply, installation, testing and commissioning of Compressed Air System of Reciprocating Oil Free Air Compressor belt driven type air compressor with following provisions. As per IS 12827 / 1987 & ISO 7396 / 1987 Specification Compressor package consists of following: a) 10 HP Air Compressor - 2 Nos. b) Electric Motor 10 HP-1 No. c) Dol Starter - L&T-10 HP - 1 No. d) Base Frame Kit (for Motor and Compressor) - 1set e) Pressure Switch - 1 No. f) Pressure Gauge - 1 No. g) NRV and Pilot Fittings - 1 No. h) Delivery Tube - 1 No i) Foundation Bolts & Anchor Fasteners - 1 Lot j) Belt Guard - 1 No. k) Air Drier 50 to 60 cfm. capacity - 1 No. Drain Ball Valve - 1 No., Air Outlet Ball valve - 1 No., Vacuum Room & Air Compressor Room Inside Accessories: Non-Return Valves, Air Pressure Switch, Pressure Gauge, Isolation Valves, Air Filters etc., Inter connecting piping: Mild Steel Pipe of 2" with fittings.	Each	419000.00
298	Supply, installation, testing and commissioning of MS Fabricated Vertical Mounted Type 1000 liters capacity Vacuum Receiver with inlet and outlet and drain holes provided suitable to operate with vacuum pump, etc., as directed by the Departmental Officers.	Each	86650.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
299	Supply, installation, testing and commissioning of MS Fabricated Vertical Mounted Type 1000 liters capacity Compressed Air Receiver with inlet and outlet and drain holes provided suitable to operate with vaccum pump etc as directed by the Departmental Officers.	Each	86650.00
300	Single Arm Pendent Mounted on Celing Height as directed by the Departmental Officers. All items are MS powder coated. The cost includes cost of all materials, labour charges, dismantling and re-doing masonry to original condition, painting of masonry works taxes including transports, risk allowance, scaffolding etc., complete and as per IS Code 12827 / 1989 & ISO 7396 / 1987 Specification.	Each	143400.00
301	Bed Head Panel of size 1m length, height 0-0.30 cm and depth of 4". The aluminium powder coated with requirement colour for provision points of O2-2 Nos., Air 1 No., Vaccum 1 No. with double electrical socket with switch 2 Nos. with 2 set with 1V - bottle holder fixing to the wall hanging including monitor stand etc., complete.	Each	16160.00
302	Supplying, fabricating and fixing slotted carriers with the following specifications. The carriers should be made of GI sheet of 16G with slots. The size of carrier is 300 x 40mm and are to be spaced at 50 cm centre to centre. The carriers are to be fixed on suspenders with the help of lock nuts. These suspenders are made of galvanised MS rods size of 6mm dia. The suspenders should be threaded to its full length so that the carrier shall be fixed at any height depending on the onsite requirement. The suspenders are to be fixed on the soffit of ceiling with self fixing anchore bolts. All components of suspenders and slotted carriers should be galvanised. The rate includes cost of all materials, labour charges for drilling and fixing the whole assembly at required places, complete and as directed by the Departmental Officers.	Each	146.00
303	Supplying and fixing of Cylinder 46 Litre "D" Type Empty Seamless Medical Nitrous Cylinder with Valve and as per IS Code 12827 / 1989 & ISO 7396 / 1987 Specifiaton etc., complete and complying with standard specification.	Each	14260.00
304	Supplying and fixing of Cylinder 46 Litre "D" Type Empty Seamless Medical Oxygen Cylinder with Valve and as per IS Code 12827 / 1989 & ISO 7396 / 1987 Specifiaton etc. complete and complying with standard specification.	Each	14260.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
305	Supplying, fabricating and fixing Oxygen Boyles Kit for Operation Theatre with following specification: The Boyles Kit Hose is made of silicon and of white colour as per standard suitable adopter fixed on higher end of hose to connect outlet unit and Boyles Machine. The adopter must be made of SS of superior quality. The rate includes cost of all materials and labour charges for fixing in proper position etc. complete and complying with standard specification.	Each	1616.00
306	Supplying, fabricating and fixing Nitrous Oxide Boyles Kit for Operation Theatre with following specification: The Boyles Kit Hose is made of silicon and of white colour as per standard suitable adopter fixed on higher end of hose to connect outlet unit and Boyles Machine. The adopter must be made of SS of superior quality. The rate includes cost of all materials and labour charges for fixing in proper position etc. complete and complying with standard specification.	Each	1616.00
FIRE FIGHTING ARRANGEMENTS			
307	Wrapping and Coating Anti-Corrosive Treatment for under ground MS pipe having one coat of anti-corrosive metal primer, one layer of asphalt tar tape wound over the MS pipe as per standard methods as per standard specification as directed by the Departmental Officers.		
a	100mm dia	RM	353.00
b	80mm dia	RM	252.00
308	Supply, erection, testing and commissioning of 80mm dia Heavy Duty Foot Valve including necessary MS flange of table 'E', gaskets, bolts & nuts, etc., installed at end of 80mm dia suction pipeline at sump as per the standard method and as directed by the Departmental Officers.	Each	13130.00
309	Supply, erection, testing and commissioning of cast iron body and gun metal or stainless steel Internal Non Return Valve of size of 80mm dia to control one way flow of water to be installed pump room at delivery line and near overhead tank at terrace level near to jockey pump and motor including necessary MS flange of table 'E', gaskets, bolts & nuts, etc. as per IS 5312 including conveyance, all incidental charges, necessary scaffolding and re-doing the dismantled portions to its original condition wherever found necessary, etc., complete as per standard specification and as directed by the Departmental Officers.	Each	10605.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
310	Supply and laying of following sizes of Armoured Aluminium Cables for electrical motor, control panel, pressure switch, jockey motor etc.. The rate inclusive of all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: POLYCAB / PARACON / FINOLEX / EQUIVALENT.		
a	3 core 95 sq.mm. armoured aluminium cable	RM	505.00
b	4 core 16 sq.mm. armoured aluminium cable	RM	217.00
c	4 core 10 sq.mm. armoured aluminium cable	RM	176.70
d	2 core 1.5 sq.mm armoured multi strand aluminium cable	RM	136.30
e	3 core 10 sq.mm. armoured aluminium cable	RM	176.70
f	10 core 2.5 sq.mm. armoured aluminium cable	RM	398.90
g	2 core 2.5 sq.mm. armoured aluminium cable	RM	156.50
311	Supply, installation, testing and commissioning of Micro Processor based Conventional 12 Zone Fire Alarm Control Panel having the rating of 24 volt DC power supply, consisting 230 / 24 volt SMPS unit, 2 Nos. of 12 volt, 7 AH standby batteries, suitably mounted on wall using fixing accessories like screws, plug, clamps and etc., as per standard methods and as directed by the Departmental Officers.	Each	77700.00
312	Supply, installation, testing and commissioning of Micro Processor based conventional 4 Zone Fire Alarm Control Panel having the rating of 24 volt DC power supply, consisting 230 / 24 volt SMPS unit, 2 Nos. of 12 volt 7 AH standby batteries, suitably mounted on wall using fixing accessories like screws, plug, clamps and etc., as per standard methods and as directed by the Departmental Officers.	Each	45400.00
313	Supply, installation, testing and commissioning of Conventional Smoke Detector suitably mounted on ceiling with MS junction box / false ceiling using fixing accessories like screws, plug, clamps, etc., as per standard methods and as directed by the Departmental Officers. (Make: Apollo / Equivalent)	Each	2120.00
314	Supply, installation, testing and commissioning of Manual Call Point (MCP) providing on wall using fixing accessories like screws, plug, clamps and etc., as per standard methods and as directed by the Departmental Officers. (Make: Ravel / Equivalent)	Mtr	1615.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
315	Supply, installation, testing and commissioning of Electronic Hooter / Sounder providing on wall using fixing accessories like screws, plug, clamps and etc., as per standard methods and as directed by the Departmental Officers (Make: Ravel / Equivalent)	Each	1565.00
316	Supply and laying of FRLS PVC insulated 2 core 1.5 sq.mm. Armoured Copper Cable on ceiling / wall using fixing accessories like screws, plug, clamps, etc., as per standard methods and as directed by the Departmental Officers.	Each	101.00
317	Supply and fixing of Water CO ₂ Stored Pressure Type 9 litres capacity Fire Extinguisher as per new IS 15683 complete with control valve, gun metal cap, pressure gauge, operation sticker, discharge hose, wall mounting bracket, safety clip, etc., as directed by the Departmental Officers.	Each	6060.00
318	<p>Supply and erection of Double Leaves Fire Rated Door with Frame having the dimension of 1800mm x 700mm with following specification:</p> <p>a. Door Frame 1.6mm: Galvanized 120 GSM branded make JSW</p> <p>b. Door Leaf 1mm: Galvanized 120 GSM branded make JSW</p> <p>c. Shutter Thickness: 46mm</p> <p>d. Honeycomb: In-fill</p> <p>e. Glue Macroplast UR-7221</p> <p>f. Door Hinges: 4" x 3" x 3mm, Double Ball: Make Assa Abloy Yale Ball bearing Butt Hinges Grade SS 304 - Finish SS</p> <p>g. Door Closer with Standard Arm Finish: Silver</p> <p>h. Lock Set: Dead Lock with both side key</p> <p>i. Door Orientation: To be confirmed by client</p> <p>j. Mounting of door: Brick wall mounted</p> <p>k. Powder Coating: Powder coated in standard RAL paint colour of PO Red (60 to 90) Microns</p> <p>l. Single Point Panic Bar (2 Horizontal): Make Assa Abloy Yale or Equivalent</p> <p>m. Dead Lock with both side key: Make Assa Abloy Yale or Equivalent</p> <p>n. Vision Panel 200 x 300mm 2 Hrs. Fire Glass Schott Pyran with Frame</p> <p>o. Rated Glass Schott Pyran with Frame</p> <p>p. Anchor Bolt with Endcaps</p> <p>The above assembly mounted on concrete or brick wall including the cost of cutting, chipping, concrete packing, pastering, scaffolding all other conveyance as per standard methods and as directed by the Departmental Officers.</p>	Each	73700.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
319	Supply, erection, testing and commissioning of fire fighting application Monoblock Motor Pumpset of 1100 LPM at 45 metres head to develop 3.5 kg / sq.cm at the highest and farthest hydrant point to make 30m water jet at the time of fire fighting emergency circumstances, coupled with 15 KW / 20 HP rated three phase 414 volts, 50 Hz, 2880 rpm electrical motor the pump with cast iron body, bronze impeller, rope gland packaging, suction size of 100 mm dia, delivery size of 80 mm dia, including the cost of foundation concrete, anti-vibration mounting, rain safety hood and etc., complete as directed by the Departmental Officers (Make: Kirloskar KDS 2050+ or Equivalent)	Each	221000.00
320	Supply, erection, testing and commissioning of fire fighting application monoblock motor pumpset of 900 LPM at 40 metres head to develop 3.5 kg/sq.cm at the heightest and farthest hydrant point to make 30 m water jet at the time of fire fighting emergency circumstances, coupled with 11 KW / 15 HP rated three phase 414 volts, 50 Hz, 2880 rpm electrical motor the pump with cast iron body, bronze impeller, rope gland packaging, suction size of 80 mm dia. delivery size of 65 mm dia., including the cost of foundation concrete anti vibration mounting, rain safety hood and etc. complete as directed by the Departmental Officers (Kirloskar make KDS 1555+ or Equivalent)	Each	134000.00
321	Supply, erection, testing and commissioning of Fire Fighting Electrical Control Panel of 15 HP, 415 V, 50 Hz Rating Wall Mounted Type fabricated using CRCA sheet, hinged lockable door, dust and vermin proof with following provisions: a. 63 Amps, 4 Pole MCB - Incomer, 6 Amps, 2 Pole MCB for Control Circuit - 1 set b. R, Y, B Phase Indication Lamp, Volt Meter (0 - 500 V), Ammeter (0 - 50 A), Volt Meter Selector Switch- 1 set c. 32 Amps Power Contactor with 230 V Coil, 14 - 23 Amps Over Load Relay - 1 set d. Single Phase Preventer - 1 No. e. Indication Lamp for Motor ON / OFF / TRIP - 1 set f. AUTO / MANUAL Selector Switch, ON / OFF Push Button - 1 set g. Add On Block, Terminal Block, Power Wiring, Control Wiring, Connectors, Cable Lugs, Slotted Cable Cover The above panel mounted on wall using anchor fasteners bolts, plugs, incoming and outgoing cable connection and all works carried out as per standard methods and as directed by the Departmental Officers.	Each	79280.00
322	Supply, erection, testing and commissioning of Fire Fighting Application Horizontal Centrifugal Type Pump Rated for 2280 LPM at 70 metres head with Electrical Motor of 60 HP of 415 volt 3 phase connection complete with base plate and accessories. (Make: Kirloskar or Equivalent). The rate inclusive of necessary vibration, bad mounting etc., as per standard method as directed by the Departmental Officers.	Each	409000.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
323	<p>Supply, installation, testing and commissioning of Diesel Engine Driven Main Fire Pump suitable for automatic operation and consisting of following and complete in all respects as required.</p> <p>a. End suction, top discharge centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 kg. / sq. cm at highest and farthest outlet at specified flow of 2280 LPM at 70m head conforming to IS 1520.</p> <p>b. 68 BHP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete. Auto starting mechanism, 12 volts / 24 volts electric starting equipment like self motor, dyanamo, solenoid switches etc.</p> <p>c. 110 litres capacity diesel tank mounted over stand fabricated using 25mm x 25mm x 6mm size MS angle, providing with level indicator, inlet port, outlet port, drain port and diesel return line port and fuel pre-filter, after filter etc. (Make: Kirloskar / Equivalent).</p> <p>d. Exhaust system having flexible metallic muffler, 100mm dia MS heavy pipe extended upto 1m, outside pump house duly insulated with 50mm thick glass wool with 1mm thick aluminium sheet cladding, residential silencer with necessary MS support arrangements from wall or ceiling as per site condition.</p> <p>e. Dash board consisting the instruments like temperature gauge, galvano type DC Ammeter, lubricant oil pressure gauge, ignition switch, emergency stop and all other protection equipment as per specification, stop seleneid for auto stop in the event of fault with audio indications, painted with post office red colour etc., as required.</p> <p>f. 12 V / 24 V storage battery, maintenance free tape, 180 AH rating, MS fabricated common base plate, coupling guard, foundation bolts etc., as required.</p> <p>g. Positioning the diesel engine driven fire pump over cement concrete foundation using suitable size anti-vibration mounting arrangement.</p> <p>All works carried out as per standard methods and as instructed by the manufacturer and as directed by the Departmental Officers. (Make: Kirloskar / Equivalent)</p>	Each	1095000.00
324	<p>Supply, erection, testing and commissioning Mono Block type Fire Fighting Pressurisation Pump of 180 LPM 110 metres head at 10 HP with suitable base frame including necessary vibration bad mounting etc., including conveying, fixing and incidental charges., etc., complete as per standard specification and as directed by the Departmental Officers. (Make: Kirloskar / Equivalent)</p>	Each	199900.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
325	Supply, erection, testing and commissioning of Fire Fighting 2 Way Fire Brigade Inlet with necessary gun metal 63mm dia non-return spring shutter arrangements so that to control one way flow at the time of emergency water supply by fire and rescue service fire engine entry including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary., etc., complete as per standard specification and as directed by the Departmental Officers. (Make: KIARTAR / OMEX / EQUIVALENT)	Each	12100.00
326	Supplying, erection, testing and commissioning of Diesel Engine Pump Main Control Panel & Jockey Pump including necessary auto cut-in, cut-off and manual operations, battery charger switch arrangements, voltmeter, ammeter and running indication siren provision, wall mounting type, etc., as per the standard method and as directed by the Departmental Officers.	Each	116000.00
327	Supply and laying of 4 core 10 sq.mm. armoured copper cable for power wiring to the Terrace Pump Motor with runs of 14 SWG TC wire for earthing, providing in wall with suitable size GI clamps, screws, wooden plug, end termination by using suitable size cable glands, copper sockets and etc., as directed by the Departmental Officers.	RM	560.00
328	Supply and laying of 2 core 1.5 sq.mm. armoured copper cable for control wiring to the Terrace Pump Motor with runs of 14 SWG TC wire for earthing, providing in wall with suitable size GI clamps, screws, wooden plug, end termination by using suitable size cable glands, copper sockets and etc., as directed by the Departmental Officers.	RM	136.00
329	Supply, erection, testing and commissioning of Fire Fighting Application direct on line main control panel to control electrical Terrace Pump Motor of 3.75 KW / 5 HP rated 415 volts / 50 Hz 3 phase, 2880 RPM including necessary auto / manual operations, over load relay, selector switches arrangements, voltmeter and ammeter provision, etc., as directed by the Departmental Officers.	Each	52000.00
330	Servicing the following sizes cast iron body Sluice Valves by disconnecting from hydrant line, dismantling, inspecting the internal shutter, replacing valve seating, checking operating lever, lubricating for moving parts, reconnecting with hydrant system as per standard methods and as directed by the Departmental Officers.		
a	80mm dia	Each	1414.00
b	65mm dia	Each	1212.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
331	Supply and fixing of Fire fighting application oblique type stainless steel Hydrant Valve of size 63mm dia with oblique type instantaneous coupling with rotating wheel to open and close the valve including MS flange of table "E", bolts & nuts with washer as per IS 5290 at ring main around the building and wet riser inside the building including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary etc complete as per standard specification and as directed by the Departmental Officers. Make: OMEX / KARTAR / LIFE GUARD / SAFE GUARD / EQUIVALENT.	Each	10040.00
332	Supply, installation of Fire Fighting Application 180 degree swinging type, hose reel drum with 20mm dia braided thermoplastic hose of 30 metres long, so as to extend to necessary distance by self rolling spindle wheel including necessary 20mm dia ball valve and open and close spray nozzle, warm clip, etc., as per the standard pattern of any reputed make at every floor nearer to hydrant valve, including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary., etc., complete as per standard specification and as directed by the Departmental Officers. Make: OMEX / KARTAR / LIFE GUARD / SAFE GUARD / EQUIVALENT.	Each	13550.00
333	Supply, and fixing in position of Fire Fighting Application Hose of 63mm dia of 15 metres length binded by copper wire with 63mm dia stainless steel male and female instantaneous fire fighting special coupling as per IS 901 as directed by the Departmental Officers. Near every hydrant points including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary etc complete as per standard specification and as directed by the Departmental Officers. Make: OMEX / KARTAR/ LIFE GUARD / SAFE GUARD / EQUIVALENT.	Each	8958.00
334	Supply, and fixing in position of Fire Fighting Application 63mm dia stainless steel short length Branch Pipe with hexagonal type spray nozzle of 15mm (or) 20mm jet bore. Near every hydrant points including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: OMEX / KARTAR / LIFE GUARD / SAFE GUARD / EQUIVALENT.	Each	3312.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
335	Supply of Fire Fighting Application MS Hose Box to keep two number of hoses and 1 No. of branch pipe with nozzle having proper glass window type double door with universe open key, painted inside white and outside Post Office Red. Near every hydrant point including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: OMEX / KARTAR / LIFE GUARD / SAFE GUARD / EQUIVALENT.	Each	7726.00
336	Supply and fixing nominal bore quartized bulb type sprinkler bulb 68 Deg C fast response pendent type including GI collar for each sprinkler bulb, mounted in MS pipe line using suitable size MS threaded coupling, thread, shellac etc., as per standard methods and including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: OMEX / KARTAR / LIFE GUARD / SAFE GUARD / EQUIVALENT.	Each	454.00
337	Supply, erection, testing and commissioning of following MS 'C' Class Heavy Duty Pipe as per IS 1239 to withstand a developing pressure of 10 kg. / sq.cm including necessary fittings like MS flange of table 'E', elbows, reducers, gaskets, bolt, nuts with washers & joints as per standard method of arc welding, including one coat metal primer and two coat Post Office Red painting including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: JINDAL / EQUIVALENT.		
a	250mm dia	RM	5555.00
b	200mm dia	RM	4141.00
c	150mm dia	RM	2979.00
d	100mm dia	RM	2070.00
e	80mm dia	RM	1616.00
f	65mm dia	RM	1363.00
g	50mm dia	RM	808.00
h	40mm dia	RM	606.00
i	25mm dia	RM	505.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
338	Wrapping and coating anti-corrosive treatment for the following under ground MS pipe having one coat of anti corrosive metal primer, one layer of asphalt tar tape wound over the MS Pipe as per standard methods as per standard specifications and as directed by the Departmental Officers.		
a	200mm dia	RM	454.00
b	150mm dia	RM	404.00
339	Supply, erection, testing and commissioning of following sizes of Heavy Duty Foot Valve including all accessories, such as, MS flange of table 'E', gaskets, bolts & nuts, etc., installed at end of 150 / 200mm dia suction pipe line at sump including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary, etc., complete and as per standard specification and as directed by the Departmental Officers. Make: NORMEX / KARTAR / EQUIVALENT		
a	200mm dia	Each	31300.00
b	150mm dia	Each	24240.00
c	100mm dia	Each	15150.00
340	Supply, erection, testing and commissioning of cast iron body and bronze internal non-rising spindle sluice valve of sizes at required places to control the flow of water including necessary MS flange of table 'E', gaskets, bolts & nuts including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: NORMEX / KARTAR / EQUIVALENT		
a	250mm dia	Each	58580.00
b	200mm dia	Each	37870.00
c	150mm dia	Each	22320.00
d	100mm dia	Each	15040.00
e	80mm dia	Each	11100.00
f	65mm dia	Each	8383.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
341	Supply, erection, testing and commissioning of Cast iron body and Gun metal or stainless steel internal Non return valve of following sizes to control one way flow of water to be installed pump room at delivery line and near overhead tank at terrace level near to jockey pump and motor including necessary MS flange of table 'E', gaskets, bolts & nuts, etc. as per IS 5312 including conveyance, all incidental charges, necessary scaffolding and re-doing the dismantled portions to its original condition wherever found necessary, etc., complete as per standard specification and as directed by the Departmental Officers.		
a	200mm dia	Each	46560.00
b	150 mm dia	Each	27270.00
c	100mm dia	Each	11310.00
342	Supply, erection, testing and commissioning of Gun Metal Gate Valve of size 50mm dia size including necessary MS flange of table 'E', gaskets, bolts & nuts etc., installed at pump house delivery line for the purpose of priming water to suction line including conveyance, all incidental charges, necessary scaffolding and re-doing the dismantled portions to its original condition wherever found necessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: LEADER / EQUIVALENT.	Each	5100.00
343	Supply, erection, testing and commissioning of Gun Metal Non-Return Valve of size 50mm dia including necessary MS flange of table 'E', gaskets, bolts & nuts, etc., installed at pump house delivery line for the purpose of priming to suction line so that to control one way including conveying, fixing and incidental charges etc., complete as per standard specification and as directed by the Departmental Officers. Make: LEADER / EQUIVALENT.	Each	4949.00
344	Supply and providing 1000 litres capacity Priming Tank made up of PVC. Make: SINTEX / EQUIVALENT	Each	9090.00
345	Priming Tank mounted with the supporting arrangement fabricated using MS angle for the height of 3 metres from the floor level, inlet, outlet, and drain arrangements inside the fire fighting pump room, as directed by the Departmental Officers.	Each	13635.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
346	Supply and laying of following sizes of Armoured Aluminium / Copper Cables for electrical motor, control panel, pressure switch, jockey motor etc., all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: POLYCAB / PARACON / FINOLEX / EQUIVALENT.		
a	3 core 185 sq.mm. armoured aluminium cable	RM	1515.00
b	3 core 10 sq.mm. armoured copper cable	RM	676.00
c	10 core 2.5 sq.mm. armoured copper cable	RM	606.00
d	2 core 2.5 sq.mm. armoured copper cable	RM	202.00
347	Earthing arrangements with GI Earth Plate including charcoal and salt with necessary excavation in all soils and to full depth as may be required and masonry work, re-filling the sides of foundation with excavated earth as per the standard specification and as directed by the Departmental Officers.	Each	6060.00
348	Supply, erection, testing and commissioning of Pressure Gauge with 0 to 14 kg. range of reputed make with necessary valve, milling thread MS coupling fixed at delivery pipe line in pump house to read the developing pressure including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: H-GURU / ISI MAKE / EQUIVALENT.	Each	3131.00
349	Supply, erection, testing and commissioning of suitable Pressure Switch of reputed make line Indfoss or Donfoss including necessary valves, couplings, etc., connected with electrical main control panel and setup at proper differential so as to auto start and auto stop the electrical motor, jockey motor including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary, etc., completed as per standard specification and as directed by the Departmental Officers. Make: DONFOSS / INDFOSS / ISI MAKE / EQUIVALENT.	Each	5252.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
350	<p>Supplying, installation, testing and commissioning of Fire Fighting Electrical Control Panel of cubical construction, floor mounted type fabricated using CRCA sheet, compartmentalised with hinged lockable door dust and vermin proof, cable alley, inter connection having switch gears and accessories mounting and internal wiring, earth terminals, numberings, necessary metering protections and indications complete in all respect suitable for operation on 415volt, 3 phase, 50 Hz AC supply with enclosure protection class IP 54 and mounted with the followings.</p> <p>A. Common Panel in Fire Pump House</p> <p>(i). Incomer</p> <p>a. 1 No. 600A TP & N SDFU with HRC fuses</p> <p>b. 1 set of 600A, 4 bar aluminium bus bar, 415 V, 50 HZ AC supply</p> <p>c. 1 No. (0-500A) digital ammeter with selector switch & CTs</p> <p>d. 1 No. (0-500V) digital voltmeter with selector switch and control fuses</p> <p>e. 3 Nos. phase indication lamp LED type with toggle switches with control fuses</p> <p>(ii). Outgoing</p> <p>a. Main Fire Pump</p> <p>400 A TPN SDFU with HRC fuses with suitable HP fully automatic starter / delta starter with over load protection, digital ammeter with built-in selector switch and suitable CTs, current sensing type single phasing preventer complete with all accessories and internal wiring required for automatic operation, selector switch for auto / manual / OFF operation - 1 No.</p> <p>b. Jockey Pump</p> <p>125 A TPN SDFU with HRC fuses with suitable HP fully automatic starter / delta starter with over load protection, current sensing type single phasing preventer complete with all accessories and internal wiring required for automatic operation, selector switch for auto / manual operation - 1 No.</p> <p>c. Diesel Engine Control comprising of:</p> <p>1. Auto / manual selector switch and 3 attempt starting device, timers and relays as required, push buttons, start / stop in manual mode.</p> <p>2. Indication lamp for high / low lubricant oil pressure, high water temperature and engine ON indication.</p> <p>3. Battery charger suitable for 12V /24V DC with boost and tickle selector switch, 0-15V / 0-30V DC volt meter, 0-20A DC ammeter.</p> <p>4. All standard relays and accessories for automatic operation of diesel engine.</p> <p>5. The above combined panel mounted over MS channel fabricated frame with cement concrete platform, all other connection works carried out as per standard methods and including conveying, fixing and incidental charges, etc., complete as per standard specification and as directed by the Departmental Officers.</p>	Each	530000.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
351	<p>Supply erection testing and commissioning of Electric Motor Driven Fire Pumpset suitable for automatic operation and consisting of following:</p> <p>a. 1 No. horizontal split casing centrifugal type fire pump capable of delivering 4550 LPM against a total head of 110 metres, so as to ensure a minimum pressure of 3.5 kg. per sq.cm at the farthest top most hydrant / outlet with pump casing of cast iron to grade FG 200, IS 210-1978 and parts like impeller, shaft sleeve, bearing ring etc., of non-corrosive metal either like bronze, brass or gun metal and shaft of stainless steel.</p> <p>b. 1 No. squirrel cage induction motor of 175 HP, 415 Volt, 3 phase 50Hz rating, conforming to IS:325-1978 with class "F" insulation, totally enclosed, IP 55 for enclosure fan cooled type conforming to relevant protection clause of IS 4691, synchronous speed of 2900 RPM.</p> <p>c. Common bed plate fabricated with MS channel / cast iron type for assembling the pump and motor flexible coupling between the pump and the motor with coupling guard for protection - 1 No.</p> <p>d. Making cement concrete foundation suitable for the above pumpset including vibration isolation pads as necessary, foundation bolts, brackets, clamp fixtures, grouting, etc., in accordance with the manufacturer's design and as per standard methods and including conveying, fixing and incidental charges, etc., complete as per standard Specification and as directed by the Departmental Officers.</p>	Each	833000.00
352	<p>Supply, installation, testing and commissioning of Diesel Engine Driven Main Fire Pump suitable for automatic operation and consisting of followings and complete in all respects as required.</p> <p>a. 1 No. horizontal split casing centrifugal type fire pump capable of delivering 4550 LPM against a total head of 110 metres, so as to ensure a minimum pressure of 3.5 kg. per sq.cm at the farthest top most hydrant / outlet with pump casing of cast iron to grade FG 200, IS 210-1978 and parts like impeller, shaft sleeve, bearing ring etc., of non-corrosive metal either like bronze, brass or gun metal and shaft of stainless steel.</p> <p>b. 190 BHP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete.</p> <p>c. Auto starting mechanism, 12 volts / 24 volts electric starting equipment like self motor, dynamo, solenoid switches, etc.</p> <p>d. 110 litres capacity diesel tank mounted over stand fabricated using 25mm x 25mm x 6mm size MS angle providing with level indicator, inlet port, outlet port, drain port and diesel return line port and fuel pre-filter, after filter etc.....</p>	Each	1252000.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
	<p>e. Exhaust system having flexible metallic mufler, 100mm dia MS heavy pipe extended upto 1m outside pump house duly insulated with 50mm thick glass wool with 1mm thick aluminium sheet cladding, residential silencer with necessary MS support arrangements from wall or ceiling as per site condition.</p> <p>f. Dash board consisting the instruments like Temperature Gauge, Galvano Type DC Ammeter, Lubricant Oil Pressure Gauge, Ignition Switch, Emergency Stop and all other protection equipment as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with Post Office Red Colour, etc., as required.</p> <p>g. 12V / 24V, storage battery, maintenance free tape, 180AH rating, MS fabricated common base plate, coupling guard, foundation bolts, etc., as required.</p> <p>h. Positioning the diesel engine driven fire pump over cement concrete foundation using suitable size anti-vibration mounting arrangement.</p> <p>All works including conveying, fixing and incidental charges, etc., complete as per standard specification and as directed by the Departmental Officers. Make: KIRLOSKAR / EQUIVALENT.</p>		
353	<p>Supply, installation, testing and commissioning of Diesel Engine Driven Main Fire Pump suitable for automatic operation and consisting of followings complete in all respects as required.</p> <p>a. 1 No. horizontal split casing centrifugal type fire pump capable of delivering 2850 LPM against a total head of 110 metres, so as to ensure a minimum pressure of 3.5 kg. per sq.cm at the farthest top most hydrant / outlet with pump casing of cast iron to grade FG 200, IS 210-1978 and parts like impeller, shaft sleeve, bearing ring, etc., of non-corrosive metal either like bronze, brass or gun metal and shaft of stainless steel.</p> <p>b. 100 BHP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete.</p> <p>c. Auto starting mechanism, 12 volts / 24 volts electric starting equipment like self motor, dynamo, solenoid switches etc.</p> <p>d. 110 litres capacity diesel tank mounted over stand fabricated using 25mm x 25mm x 6mm size MS angle providing with level indicator, inlet port, outlet port, drain port and diesel return line port and fuel pre filter, after filter etc.....</p>	Each	1156000.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
	<p>e. Exhaust system having flexible metallic muffler, 100mm dia MS heavy pipe extended upto 1m outside pump house duly insulated with 50mm thick glass wool with 1mm thick aluminium sheet cladding, residential silencer with necessary MS support arrangements from wall or ceiling as per site condition.</p> <p>f. Dash board consisting of the instruments like Temperature Gauge, Galvano Type DC Ammeter, Lubricant Oil Pressure Gauge, Ignition Switch, Emergency Stop and all other protection equipments as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with Post Office Red Colour etc., as required.</p> <p>g. 12 V / 24 V, storage battery, maintenance free type, 180AH rating. MS fabricated common base plate, coupling guard, foundation bolts, etc., as required.</p> <p>h. Positioning the Diesel Engine Driven Fire Pump over cement concrete foundation using suitable size anti vibration mounting arrangements.</p> <p>All works including conveying, fixing and incidental charges, etc., completed as per standard specification and as directed by the Departmental Officers. Make: KIRLOSKAR / EQUIVALENT.</p>		
354	Supply, erection, testing and commissioning of 180 LPM, 70 metres Head Pressurization Pump with 10HP electrical motor of Kirloskar make with suitable base frame including necessary vibration pad mounting etc., including conveying, fixing and incidental charges, etc., complete as per standard specification and as directed by the Departmental Officers. Make: KIRLOSKAR / EQUIVALENT.	Each	103000.00
355	Supply, erection, testing and commissioning of Fire Fighting 4 Way Fire Brigade Inlet with necessary gun metal 63mm dia non return spring shutter arrangements, so that to control one way flow at the time of emergency water supply by fire and rescue service fire engine entry including conveyance, all incidental charges, necessary scaffolding and re-doing the dismantled portions to its original condition wherever found necessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: KIARTAR / OMEX / EQUIVALENT.	Each	14645.00
356	Supply, erection, testing and commissioning of Air Release Valve of 20mm dia, so as to release airlock in 100mm dia MS pipe at top most wet riser, including conveyance, all incidental charges, necessary scaffolding and re-doing the dismantled portions to its original condition wherever found necessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: KARTAR / EQUIVALENT.	Each	1464.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
357	Providing, fixing pipe supports from columns / wall or suspenders from roof slab to suit various dia of pipes made out of GI / MS adjustable rods threaded for a sufficient length to adjust the height of support along with clamping arrangement for holding pipes of anchor fastening, arrangement design of hanger and should confirm with specification.		
a	100mm dia	Each	282.00
b	80mm dia	Each	272.00
c	50mm dia	Each	252.00
d	40mm dia	Each	141.00
358	Supply and fixing of stored pressure ABC (Mono Ammonium Phosphate) Powder Type Fire Extinguisher of 6 kg. capacity as per IS:15683 with pressure gauge, discharge hose & control nozzle, wall mounting bracket, safety clip etc., including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary etc, complete as per standard specification and as directed by the Departmental Officers. Make: EXCELLENT / SAFETY FIRST / EQUIVALENT	Each	4545.00
359	Supply and fixing of Carbon-di-Oxide Gas Type 2 kg. capacity Fire Extinguisher as per New IS15683, complete with control valve, discharge hose with horn, wall mounting bracket, safety clip etc., including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary etc., complete as per standard specification and as directed by the Departmental Officers. Make: EXCELLENT / SAFETY FIRST / EQUIVALENT	Each	7575.00
360	Supply and kept in position of Trolley Mounted Water CO ₂ Stored Pressure Type 50 litres capacity Fire Extinguisher as per IS13385, complete with control valve, gun metal cap, pressure gauge, operation sticker, discharge hose, mounting trolley with moving wheel, safety clip, etc., including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: EXCELLENT / SAFETY FIRST / EQUIVALENT	Each	21200.00

Sl. No.	Name of Material	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
361	Supply and kept in position of Trolley Mounted Type 22.5 kg. Carbon-di-Oxide Fire Extinguisher as per IS15683, complete with control valve, gun metal cap, pressure gauge, operation sticker, discharge hose, mounting trolley with moving wheel, safety clip, etc., including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: EXCELLENT / SAFETY FIRST / EQUIVALENT	Each	29290.00
362	Servicing the SS Hydrant Valves by disconnecting from pipe line, dismantling, checking the operation of rotating spindle, replacing rubber 'O' ring of valve seating, repalcing rubber gasket of 80mm dia OD x 65mm dia ID, repalcing the 5/8" x 2 ¹ / ₂ bolt, nut, washers, re-connecting with hydrant system as per standard methods and as directed by the Departmental Officers.	Each	1464.00
363	Servicing the First Aid Hose Reel Drum assembly by disconnecting from hydrant line, replacing shut off nozzle, warm clip, lubricating the rotating assembly, replacing 20mm dia, 30 metres long rubber hose, re-connecting with hydrant system as per standard methods and as directed by the Departmental Officers.	Each	3535.00
364	Servicing the following sizes of cast iron body Sluice Valves by disconnecting from hydrant line, dismantling, inspecting the internal shutter, replacing valve seating, checking operating lever, lubricating for moving parts, re-connecting with hydrant system, as per standard methods and as directed by the Departmental Officers.		
a	150mm dia	Each	2727.00
b	100mm dia	Each	1818.00
365	Supply and fixing in position of 12 Volt 180 AH Lead Acid, Sealed Maintenance Free (SMF) batteries with connecting leads, lugs terminal post, etc., as per standard methods and including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found neccessary, etc., complete as per standard specification and as directed by the Departmental Officers. Make: EXCELLENT / SAFETY FIRST / EQUIVALENT.	Each	25250.00

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Sl. No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)		
			WORKING PRESSURE		
			4 kg. per cm ²	6 kg. per cm ²	10 kg. per cm ²
	WATER SUPPLY AND SANITARY ARRANGEMENTS				
366	PVC ITEMS FINOLEX (OR) EQUIVALENT (WITH ISI MONOGRAM)				
1	PVC Pipes				
a	15mm dia	RM	--	--	14.60
b	20mm dia	RM	--	--	21.60
c	25mm dia	RM	--	--	36.80
d	32mm dia	RM	--	--	55.10
e	40mm dia	RM	--	--	86.30
f	50mm dia	RM	55.10	86.30	129.00
g	63mm dia	RM	79.80	116.80	--
h	75mm dia	RM	110.90	166.30	--
i	90mm dia	RM	129.30	197.60	--
j	100mm dia	RM	151.00	228.40	--
k	110mm dia	RM	172.80	259.30	--
l	160mm dia	RM	357.00	506.00	--
Note	(1) For Rainwater down fall pipe works, only PVC Pipe of working Pressure of 4 kg. per sq.cm. shall be adopted.				
	(2) For Sanitary arrangement items of works, only PVC Pipe of working Pressure of 6 kg. per sq.cm. shall be adopted.				
	(3) For Water Supply arrangement items of works, only PVC Pipe of working Pressure of 10 kg. per sq.cm. shall be adopted.				
367	PVC Specials for water supply arrangements				
A	Coupler				
a	15mm dia	Each	--	--	3.50
b	20mm dia	Each	--	--	4.10
c	25mm dia	Each	--	--	4.80
d	32mm dia	Each	--	--	6.00
e	40mm dia	Each	--	--	9.00
f	50mm dia	Each	--	--	12.20
B	Elbow				
a	15mm dia	Each	--	--	5.30
b	20mm dia	Each	--	--	6.00

Sl. No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)		
			WORKING PRESSURE		
			4 kg. per cm ²	6 kg. per cm ²	10 kg. per cm ²
c	25mm dia	Each	--	--	8.50
d	32mm dia	Each	--	--	12.20
e	40mm dia	Each	--	--	17.20
f	50mm dia	Each	--	--	24.50
C	Bend				
a	15mm dia	Each	--	--	6.00
b	20mm dia	Each	--	--	7.30
c	25mm dia	Each	--	--	9.70
d	32mm dia	Each	--	--	14.60
e	40mm dia	Each	--	--	19.60
f	50mm dia	Each	--	--	30.70
D	Tee				
a	15mm dia	Each	--	--	7.30
b	20mm dia	Each	--	--	8.50
c	25mm dia	Each	--	--	12.20
d	32mm dia	Each	--	--	14.70
e	40mm dia	Each	--	--	24.50
f	50mm dia	Each	--	--	36.80
E	End Cap				
a	15mm dia	Each	--	--	3.50
b	20mm dia	Each	--	--	4.80
c	25mm dia	Each	--	--	6.00
d	32mm dia	Each	--	--	7.30
e	40mm dia	Each	--	--	11.40
f	50mm dia	Each	--	--	15.80
F	Reducer				
a	20mm x 15mm	Each	--	--	4.80
b	25mm x 20mm	Each	--	--	5.30
c	32mm x 25mm	Each	--	--	8.50
d	40mm x 32mm	Each	--	--	11.40
e	50mm x 40mm	Each	--	--	19.60

Sl. No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)		
			WORKING PRESSURE		
			4 kg. per cm ²	6 kg. per cm ²	10 kg. per cm ²
G	Reducer Tee				
a	20mm x 15mm	Each	--	--	7.30
b	25mm x 20mm	Each	--	--	8.50
c	32mm x 25mm	Each	--	--	12.20
d	40mm x 32mm	Each	--	--	14.70
e	50mm x 40mm	Each	--	--	24.50
H	Reducer Elbow				
a	20mm x 15mm	Each	--	--	6.00
b	25mm x 20mm	Each	--	--	7.30
c	32mm x 25mm	Each	--	--	9.70
d	40mm x 32mm	Each	--	--	12.20
e	50mm x 40mm	Each	--	--	18.30
I	Jet Nipple				
a	25mm dia	Each	--	--	15.80
b	32mm dia	Each	--	--	20.70
J	PVC Door Bend				
a	15mm dia	Each	--	--	6.00
b	20mm dia	Each	--	--	7.30
c	25mm dia	Each	--	--	9.70
d	32mm dia	Each	--	--	14.60
e	40mm dia	Each	--	--	19.60
f	50mm dia	Each	--	--	28.40
K	PVC Door Tee				
a	15mm dia	Each	--	--	7.30
b	20mm dia	Each	--	--	8.50
c	25mm dia	Each	--	--	12.20
d	32mm dia	Each	--	--	14.70
e	40mm dia	Each	--	--	24.30
f	50mm dia	Each	--	--	27.60

Sl. No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)	
			"O" Ring Jointing	By pasting
368	PVC SPECIALS FOR SANITARY ARRANGEMENTS FINOLEX (OR) EQUIVALENT (WITH ISI MONOGRAM)			
A	Elbow			
a	75mm	Each	64.60	52.90
b	90mm	Each	82.80	63.90
c	110mm	Each	100.40	82.80
d	160mm	Each	112.30	94.80
B	Door Elbow			
a	75mm	Each	82.80	59.20
b	90mm	Each	106.60	71.00
c	110mm	Each	130.20	112.30
d	160mm	Each	154.10	130.40
C	Tee			
a	75mm	Each	88.60	82.80
b	90mm	Each	112.30	100.40
c	110mm	Each	147.90	136.00
d	160mm	Each	166.00	147.10
D	Tee with Door (Single)			
a	75mm	Each	112.30	106.60
b	90mm	Each	136.00	118.30
c	110mm	Each	171.60	159.80
d	160mm	Each	207.20	189.80
E	Tee with Door (Double)			
a	75mm	Each	142.00	136.00
b	90mm	Each	195.30	177.40
c	110mm	Each	237.30	224.70
d	160mm	Each	271.90	241.50
F	Bend			
a	75mm	Each	71.00	59.20
b	90mm	Each	88.60	71.00
c	110mm	Each	106.60	88.60
d	160mm	Each	118.30	100.40

Sl. No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)	
			"O" Ring Jointing	By pasting
G	"Y"			
a	75mm	Each	94.80	88.60
b	90mm	Each	118.30	106.60
c	110mm	Each	154.10	142.20
d	160mm	Each	171.60	154.10
H	"Y" with Door (single)			
a	75mm	Each	112.30	106.60
b	90mm	Each	142.30	124.20
c	110mm	Each	189.80	166.00
d	160mm	Each	218.00	193.00
I	"Y" with Door (Double)			
a	75mm	Each	154.00	147.80
b	90mm	Each	207.00	189.80
c	110mm	Each	249.00	236.20
d	160mm	Each	301.00	271.00
J	Double Tee with Door (Single)			
a	75mm	Each	195.00	159.80
b	90mm	Each	224.00	183.50
c	110mm	Each	265.00	231.00
d	160mm	Each	296.00	260.00
K	Double "Y" with Door (single)			
a	75mm	Each	213.00	177.00
b	90mm	Each	237.00	201.00
c	110mm	Each	271.00	254.00
d	160mm	Each	331.00	296.00
L	Reducer			
a	75mm x 63mm	Each	64.70	52.90
b	110mm x 63mm	Each	82.80	71.00
c	110mm x 75mm	Each	94.80	82.80
d	110mm x 90mm	Each	106.50	94.80
f	160mm x 110mm	Each	124.20	118.30

Sl. No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)	
			"O" Ring Jointing	By pasting
M	Shoe			
a	110mm dia	Each	--	71.00
b	160mm dia	Each	--	106.50
N	Vent Cowl			
a	50mm dia	Each	--	29.30
b	75mm dia	Each	--	47.30
c	110mm dia	Each	--	70.00
369	PVC AND HDPE PIPES FOR BORE WELLS			
A	Special Blue Pipes for Bore Well			
a	110mm dia	RM	--	295.00
b	125mm dia	RM	--	331.00
c	140mm dia	RM	--	381.00
d	160mm dia	RM	--	430.00
B	Special Blue Slotted Pipes for Bore Wells			
a	110mm dia	RM	--	307.00
b	125mm dia	RM	--	350.00
c	140mm dia	RM	--	406.00
d	160mm dia	RM	--	493.00
C	End Cap for Bore Well			
a	110mm dia	Each	--	92.30
b	125mm dia	Each	--	98.70
c	140mm dia	Each	--	111.00
d	160mm dia	Each	--	122.80
D	HDPE PIPES FOR SUB-MERSIBLE PUMP IN BORE WELL Class-5 (1 MPa or 10 kg./cm² pressure)			
a	20mm dia	RM	--	30.40
b	25mm dia	RM	--	55.10
c	32mm dia	RM	--	73.90
d	40mm dia	RM	--	104.50
e	50mm dia	RM	--	148.00

Sl. No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)	
			"O" Ring Jointing	By pasting
370	1.0 HP Jet Pump Set	Each	8835.00	
371	1.5 HP Jet Pump Set	Each	15150.00	
	New Item			
372	2.0 HP Jet Pump Set	Each	13650.00	
373	3.0 HP Jet Pump Set	Each	25250.00	
	New Items			
374	1.0 HP Monoblock Pump	Each	8000.00	
375	2.0 HP Monoblock Pump	Each	12000.00	
376	5.0 HP Monoblock Pump	Each	35000.00	
377	2.0 HP Submersible Pump	Each	15150.00	
378	3.0 HP Submersible Pump	Each	34800.00	
379	5.0 HP Submersible Pump	Each	51500.00	
	New Items			
380	7.5 HP Submersible Pump	Each	82500.00	
381	10.0 HP Submersible Pump	Each	100000.00	
382	3 Phase Panel Board including labour charges	Each	13130.00	
383	Nylon Rope for Bore-well	RM	60.60	
384	UPVC Pipe (Un-Plasticized Polyvinyl Chloride) UPVC used for residential and home applications, water pressure in residential areas do not normally exceed the maximum tolerance. (Schedule-40)			
a	15mm dia	RM	36.30	
b	20mm dia	RM	52.10	
c	25mm dia	RM	75.60	
d	32mm dia	RM	102.50	
e	40mm dia	RM	113.80	
f	50mm dia	RM	156.70	
g	65mm dia	RM	233.00	
h	80mm dia	RM	298.00	
i	100mm dia	RM	391.00	


Sl. No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)	
			"O" Ring Jointing	By pasting
j	150mm dia	RM	653.00	
385	UPVC Pipe (Un-Plasticized Polyvinyl Chloride) UPVC used for commercial applications operate and designed to handle higher water pressure (Schedule-80)			
a	15mm dia	RM	45.60	
b	20mm dia	RM	64.30	
c	25mm dia	RM	91.40	
d	32mm dia	RM	126.00	
e	40mm dia	RM	155.00	
f	50mm dia	RM	211.00	
g	65mm dia	RM	301.00	
h	80mm dia	RM	433.00	
i	100mm dia	RM	642.00	
j	150mm dia	RM	1073.00	
386	CPVC (Chlorinated Poly Vinyl Chloride) Pipe (Higher pressure rating with higher pipe thickness) Standard Dimension Ratio-11			
a	15mm dia	RM	66.00	
b	20mm dia	RM	100.00	
c	25mm dia	RM	156.00	
d	32mm dia	RM	233.00	
e	40mm dia	RM	256.00	
f	50mm dia	RM	279.00	
g	65mm dia	RM	303.00	
387	CPVC (Chlorinated Poly Vinyl Chloride) Pipe (Lesser pressure rating with lesser pipe thickness) Standard Dimension Ratio-13.50			
a	15mm dia	RM	57.80	
b	20mm dia	RM	91.70	
c	25mm dia	RM	133.20	
d	32mm dia	RM	202.00	
e	40mm dia	RM	223.00	
f	50mm dia	RM	243.00	
g	65mm dia	RM	263.00	

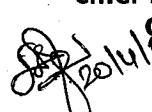
Sl. No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)	
			"O" Ring Jointing	By pasting
388	UPVC Specials			
I	Elbow			
a	50mm dia	Each	74.80	
b	40mm dia	Each	49.80	
c	32mm dia	Each	37.40	
d	25mm dia	Each	24.90	
e	20mm dia	Each	15.30	
f	15mm dia	Each	10.20	
II	Tee			
a	50mm dia	Each	103.60	
b	40mm dia	Each	64.30	
c	32mm dia	Each	48.50	
d	25mm dia	Each	32.80	
e	20mm dia	Each	19.00	
f	15mm dia	Each	13.50	
III	Union			
	New Item			
a	20mm dia	Each	35.10	
b	15mm dia	Each	28.20	
c	25mm dia	Each	56.40	
d	32mm dia	Each	76.10	
e	40mm dia	Each	112.80	
f	50mm dia	Each	240.00	
	New Items			
IV	Bend			
a	50mm dia	Each	70.00	
b	40mm dia	Each	50.00	
c	32mm dia	Each	35.00	
d	25mm dia	Each	28.00	

Sl. No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)	
			"O" Ring Jointing	By pasting
e	20mm dia	Each	20.00	
V	Coupler			
a	50mm dia	Each	60.50	
b	40mm dia	Each	44.00	
c	32mm dia	Each	35.50	
	New Items			
d	25mm dia	Each	27.90	
e	20mm dia	Each	19.40	
f	15mm dia	Each	15.20	
VI	Reducer			
a	50mm x 40mm dia	Each	51.10	
b	40mm x 32mm dia	Each	32.80	
c	32mm x 25mm dia	Each	23.80	
d	25mm x 20mm dia	Each	14.40	
e	20mm x 15mm dia	Each	10.70	
VII	Reducer Elbow			
a	50mm x 40mm dia	Each	99.70	
b	40mm x 32mm dia	Each	68.50	
c	32mm x 25mm dia	Each	49.80	
d	25mm x 20mm dia	Each	32.60	
e	20mm x 15mm dia	Each	27.00	
VIII	Reducer Tee			
a	50mm x 40mm dia	Each	114.10	
b	40mm x 32mm dia	Each	76.10	
c	32mm x 25mm dia	Each	55.10	
d	25mm x 20mm dia	Each	32.80	
e	20mm x 15mm dia	Each	26.20	
IX	Hex Nipple			
a	50mm dia	Each	160.00	

Sl. No.	Description of Materials	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)	
			"O" Ring Jointing	By pasting
b	40mm dia	Each	106.30	
c	32mm dia	Each	69.50	
d	25mm dia	Each	49.80	
	New Items			
e	20mm dia	Each	26.25	
f	15mm dia	Each	19.10	
389	CPVC Specials			
I	Elbow			
a	50mm dia	Each	313.00	
b	40mm dia	Each	152.00	
c	32mm dia	Each	91.40	
d	25mm dia	Each	43.00	
e	20mm dia	Each	20.40	
f	15mm dia	Each	17.70	
II	Tee			
a	50mm dia	Each	394.00	
b	40mm dia	Each	209.00	
c	32mm dia	Each	116.70	
d	25mm dia	Each	51.80	
e	20mm dia	Each	33.40	
f	15mm dia	Each	23.80	
	New Items			
III	Bend			
a	25mm dia	Each	40.00	
b	20mm dia	Each	32.00	
c	15mm dia	Each	25.00	
IV	Coupling			
a	50mm dia	Each	214.90	
b	40mm dia	Each	103.00	

www.civilmartindia.co.in			Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)	
Sl. No.	Description of Materials	Unit	"O" Ring Jointing	By pasting
c	32mm dia	Each	56.10	
d	25mm dia	Each	27.90	
e	20mm dia	Each	16.30	
f	15mm dia	Each	13.60	
V	Union			
a	50mm dia	Each	567.00	
b	40mm dia	Each	315.00	
c	32mm dia	Each	190.00	
d	25mm dia	Each	118.00	
e	20mm dia	Each	93.50	
f	15mm dia	Each	60.00	
VI	Nipple			
a	50mm dia	Each	375.00	
b	40mm dia	Each	238.00	
c	32mm dia	Each	163.00	
d	25mm dia	Each	104.40	
e	20mm dia	Each	68.90	
f	15mm dia	Each	62.70	
Note:	The Basic Rate adopted under this Head, "Annexure-VI – Rates of Other Construction Materials" is exclusive of all taxes and GST.			


**Engineer-in-Chief, WRD &
 Chief Engineer (General), PWD,
 Chennai-5 (Member)**

 20/4/20

RATES OF ELECTRICAL ITEMS OF WORKS

Note: No extra on cost, conveyance charges shall be allowed for all the items included under this category. The rates approved therein are applicable at site of work.

Item No.	Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	RATES FOR MATERIALS: ELECTRICAL LAMPS, FITTINGS AND CONNECTED ACCESSORIES.		
I	PART "A"		
1	INCANDESCENT BULBS 230V/250V GRADE BC/ES WITH ISI		
a	15 Watts	Each	9.35
b	25 Watts	Each	9.35
c	40 Watts	Each	9.35
d	60 Watts	Each	9.35
e	100 Watts	Each	9.35
f	200 Watts	Each	18.80
2	INCANDESCENT BULB 230V/250V GRADE B.C/E.S		
a	Colour 15 Watts	Each	11.50
b	Blended Lamp 160 Watts	Each	228.10
3	PL LAMP (PHILIPS / OSRAM / EQUIVALENT)		
a	9 Watts	Each	71.00
b	11 Watts	Each	75.60
c	18 Watts	Each	119.20
d	36 Watts	Each	132.60
4	FLUORESCENT TUBULAR LAMPS WITH ISI MARK		
a	Cool Day Light 2 Ft. 20 Watts	Each	35.60
b	Cool Day Light 4 Ft. 40 Watts	Each	35.60
c	Cool Day Light 4 Ft. 36 Watts	Each	34.80
5	4' 18W Crystal Glass LED Tube Light Fitting (Havells / Equivalent)	Each	384.30
6	MERCURY VAPOUR DISCHARGE LAMP 230V GRADE 3 PIN BC		
a	80 Watts	Each	163.80
b	125 Watts	Each	172.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	c	250 Watts	Each	420.00
	d	400 Watts	Each	592.00
	7	BOX TYPE SINGLE FLUORESCENT FITTING WITH COPPER CHOKE AND CONDENSOR COMPLETE WITH ISI MARK		
	a	4 Ft. 40 Watts with Ballast	Each	303.00
	b	4 Ft. 40 Watts with Ballast (Philips / Crompton / Wipro / Equivalent)	Each	446.00
	8	BOX TYPE TWIN FLUORESCENT FITTING WITH COPPER CHOKE AND CONDENSOR (HPF) COMPLETE WITH ISI MARK		
	a	4 Ft. 40 Watts	Each	569.00
	b	4 Ft. 40 Watts with Ballast (Philips / Crompton / Equivalent)	Each	744.00
	9	INDUSTRIAL TYPE FLUORESCENT FITTING STOVE ENAMELLED WITH COPPER CHOKE AND CONDENSOR (HPF) 4' 40 W		
	a	Single type suitable for 1 No. Tube	Each	839.00
	b	Twin type suitable for 2 Nos. Tube	Each	1031.00
	10	DECORATIVE TWIN FLUORESCENT TYPE FITTING WITH COPPER CHOKE & CONDENSOR COMPLETE SUITABLE FOR 2 Nos. FLUORESCENT TUBES		
	a	4' 40 W Twin Mirror Optic Recessed Mounting Type Fitting	Each	1446.00
	b	4' 40 W Twin Mirror Optic Suspension Type Fitting (Philips / Crompton / Wipro / Equivalent)	Each	2607.00
	c	4' 40 W Twin Mirror Optic Recessed Mounting Type Fitting (Philips / Crompton / Wipro / Equivalent)	Each	1912.00
	11	SINGLE TYPE STREET LIGHT FLUORESCENT FITTING SUITABLE FOR THE ONE No. FLUORESCENT TUBE WITH COPPER CHOKE & CONDENSOR COMPLETE		
	a	4 Ft. 40 Watts Type	Each	636.00
	12	TWIN TYPE STREET LIGHT FLUORESCENT FITTING SUITABLE FOR 2 Nos. FLUORESCENT TUBES WITH COPPER CHOKE & CONDENSOR COMPLETE		
	a	4 Ft. 40 Watts Type	Each	856.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	13	POST TOP LANTERN FITTING OF INTEGRAL TYPE WITH COPPER CHOKE & CONDENSOR & NECESSARY ACCESSORIES (PHILIPS / CROMPTON GREAVES / WIPRO / EQUIVALENT) (SPHERICAL / RIBBED / CONICAL ACRYLIC COVER)			
	a	Suitable for 125 Watts MV Lamp	Each	3080.00	
	b	Suitable for 70 Watts SV Lamp	Each	3246.00	
	c	Post top lantern fitting with SC holder suitable for 160W Blended Lamp / Incandescent Lamp	Each	1773.00	
	14	CFL STREET LIGHT FITTINGS (COMPACT FLOURESCENT LAMP)		Higher End Havells / Crompton / Equivalent	Lower End Orbit/ Inventa / Equivalent
	a	T5 Street Light (IP65) with EB / 4 x 14W T5	Each	3670.00	2935.00
	b	T5 Street Light (IP65) with EB / 4 x 24W T5	Each	4055.00	3246.00
	c	1 x 9W CFL Street Light	Each	845.00	675.00
	d	1 x 11W CFL Street Light	Each	845.00	675.00
	e	1 x 13W CFL Street Light	Each	850.00	678.00
	f	1 x 18W CFL Street Light	Each	850.00	678.00
	g	2 x 9W CFL Street Light	Each	809.00	647.00
	h	2 x 11W CFL Street Light	Each	989.00	792.00
	i	2 x 13W CFL Street Light	Each	989.00	792.00
	j	2 x 18W CFL Street Light	Each	989.00	792.00
	k	1 x 36 CFL Street Light	Each	1010.00	808.00
	l	45-1 x 45W 4U Retro CFL B22 Street Light	Each	943.00	756.00
	m	CFL - 1 x 85W CFL E27 Street Light	Each	1534.00	1228.00
	n	CFL - 1 x 85W CFL B22 Street Light	Each	1534.00	1228.00
	o	36WFP-LHF(MS) Street Light	Each	1596.00	1275.00
	p	36WFP-LHF(AL) Street Light	Each	1773.00	1414.00
	q	T5 1 x 24W FTL T5 Street Light	Each	1654.00	1322.00
	r	T5 2 x 14W FTL T5 Street Light	Each	1830.00	1467.00
	s	T5 2 x 24W FTL T5 Street Light	Each	1917.00	1534.00
	t	FTL 1 x 36 / 40W FTL Street Light	Each	1327.00	1062.00
	u	FTL 2 x 36 / 40W FTL Street Light	Each	1892.00	1513.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	15	4 Feet LED Fitting		Higher End Philips / Havells / Equivalent	Lower End Orbit / Equivalent
	a	18W 4 Feet LED Fitting with LED	Each	747.00	636.00
	b	20W 4 Feet LED Fitting with LED	Each	758.00	742.00
	16	LED INDOOR FITTINGS (LIGHT EMITTING DIODE)		Higher End Philips / Havells / Equivalent	Lower End Orbit / Equivalent
	a	24W LED 4000K 2 x 2 Square Type Recessed Fitting with LED	Each	3474.00	2463.00
	b	18W LED 3000K Square Type Recessed Fitting with LED	Each	1358.00	896.00
	c	18W LED 3000K Round Type Recessed Fitting with LED	Each	1234.00	974.00
	17	LED OUTDOOR FITTINGS (LIGHT EMITTING DIODE)		Higher End Philips / Havells / Equivalent	
	a	30W LED Street Light Fitting with LED	Each	2478.00	
	b	48W LED Street Light Fitting with LED	Each	4895.00	
	c	80W LED Focus Light Fitting with LED	Each	11660.00	
	d	120W LED Street Light Fitting with LED	Each	13785.00	
	e	150W LED Street Light Fitting with LED	Each	17180.00	
	18	LED OUTDOOR FITTINGS (LIGHT EMITTING DIODE)		Lower End Orbit / Equivalent	
	a	25W LED Street Light Fitting with LED	Each	1171.00	
	b	30W LED Street Light Fitting with LED	Each	1820.00	
	c	60W LED Street Light Fitting with LED	Each	3598.00	
	d	120W LED Street Light Fitting with LED	Each	11665.00	
	e	150W LED Street Light Fitting with LED	Each	13785.00	
	19	TIMER SWITCHES		Havells/ Equivalent	
	a	24 Hours Analog Timer Switch with Shortest Switching Time 30 Minutes	Each	2260.00	
	b	24 Hours Programmable Timer Switch with Shortest Switching Time 15 Minutes	Each	2400.00	

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	c	Digital Weekly Programmable Timer Switch with Shortest Switching Time 1 Minute	Each	2250.00
	d	Astronomical Weekly Programmable Timer Switch	Each	2590.00
	e	Staircase Light Timer Switch Adjustable Range 5 to 20 Minutes	Each	1190.00
	20	63A 3 Phase 4 Pole Contactor (L&T / Equivalent)		5276.00
	21	STARTERS FOR FLUORESCENT TUBES		
	a	Starters of capacity 20 Watts	Each	9.35
	b	Starters of capacity 40 Watts / 36 Watts	Each	9.35
	22	POLYSTER FILLED COPPER CHOKE 250V / 50HZ GRADE SUITABLE FOR (PHILIPS / CROMPTON / WIPRO / EQUIVALENT)		
	a	20 Watts Fluorescent Tube	Each	167.90
	b	40 Watts Fluorescent Tube	Each	167.90
	c	36 / 40W Electronic Ballast for Fluorescent Tube (Philips / Crompton / Equivalent)	Each	278.90
	d	36 / 40W Electronic Ballast for Fluorescent Tube (Indo Asian / Equivalent)	Each	227.00
	23	CONDENSOR FOR SV / MV LAMP		
	a	8 Mfd for 80 Watts Bulb	Each	102.40
	b	10 Mfd for 125 Watts Bulb	Each	122.60
	c	15 Mfd for 250 Watts Bulb	Each	163.30
	d	20 Mfd for 400 Watts Bulb	Each	225.90
	24	Battern Type Bakelite Holder for Lamp	Each	16.35
	25	Water Tight Bulk Head Fitting suitable for 100 / 60 Watts Lamp with Guard Heavy Type (PHILIPS / BAJAJ / CROMPTON GREAVES / EQUIVALENT)	Each	272.20
	26	Ceiling Rose	Each	13.60
	27	Ceiling Fixtures 250 / 300mm complete with gallery, etc. Clear Glass Opac / Crystal suitable for 40 / 60 Watts Bulb	Each	160.80
	28	Ceiling Luminaire with Mirror Optics suitable for 2 Nos. 9 Watts / 11 Watts (Philips / Crompton / Bajaj / Equivalent)	Each	1019.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
		(For Items 7 to 14, 27 & 28 the rates are exclusive of cost of Tubes and Lamps)		
	29	Fan Clamp (Dia 12mm) with 6mm MS Side Plates & 45cm Cross Arm	Each	108.80
	30	CALL BELLS		
	a	Call Bell / Buzzer 6mm suitable for AC / DC	Each	40.90
	b	Push Bell	Each	16.35
	c	Gong Bell 9" size suitable for 250V	Each	409.00
	d	Gong Bell 12" size suitable for 250V	Each	592.00
	31	WATER HEATER WITH ISI MARK		
	a	Automatic Electrical Water Heater with copper container, with Glass Wool / Puf Insulation with MS powder coated shell suitable for 25 Litres capacity 230V / 1000W (VENUS / RACOLD / EQUIVALENT)	Each	6710.00
	b	Automatic Electrical Water Heater with copper container, with Glass Wool / Puf Insulation with MS powder coated shell suitable for 25 Litres capacity 230V / 1000W (Other make ISI)	Each	4968.00
	c	Automatic Electrical Water Heater with copper container, with Glass Wool / Puf Insulation with MS powder coated shell suitable for 35 Litres capacity 230V / 1000W (VENUS / RACOLD / EQUIVALENT)	Each	7706.00
	d	Automatic Electrical Water Heater with copper container, with Glass Wool / Puf Insulation with MS powder coated shell suitable for 35 Litres capacity 230V / 1000W (Other make ISI)	Each	5755.00
II		PART "B"		
	1	FANS - CONFORMING TO ISS		
	a	AC Ceiling Fan complete 1200 mm (48") Sweep with 300mm Down Rod (without Regulator)	Each	1130.00
	b	AC Ceiling Fan Complete 1400 mm (56") Sweep with 300mm Down Rod (without Regulator)	Each	1212.00
	c	Stepped Electronic 300W / 450W Square Type Fan Regulator (Anchor Deluxe / Equivalent)	Each	192.40
	d	Dimmer Type Electronic 300W / 450W Square Type Fan Regulator (Anchor Deluxe / Equivalent)	Each	153.80

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	e	AC Ceiling Fan complete 1200mm (48") Sweep with 300mm Down Rod (without Regulator) (Crompton / Equivalent)	Each	1282.00	
	f	AC Ceiling Fan complete 1400mm (56") Sweep with 300mm Down Rod (without Regulator) (Crompton / Equivalent)	Each	1383.00	
	2	EXHAUST FANS			
	a	AC Exhaust Fan 225mm (9") Sweep (Light Duty)	Each	1047.00	
	b	AC Exhaust Fan 300mm (12") Sweep (Light Duty)	Each	1197.00	
	c	AC Exhaust Fan 375mm (15") Sweep (Light Duty)	Each	1234.00	
	d	AC Exhaust Fan 450mm (18") Sweep (Light Duty)	Each	1737.00	
	e	AC Exhaust Fan 375mm (15") Sweep (Heavy Duty)	Each	2281.00	
	f	AC Exhaust Fan 450mm (18") Sweep (Heavy Duty)	Each	2836.00	
	3	LOUVER SHUTTERS ARRANGEMENTS			
	a	MS / Fibre Louvers Shutters arrangements for 300mm AC Exhaust Fan	Each	218.60	
	b	MS / Fibre Louvers Shutters arrangements for 375mm AC Exhaust Fan	Each	231.60	
	c	MS / Fibre Louvers Shutters arrangements for 450mm AC Exhaust Fan	Each	259.20	
	4	CEILING FAN		Higher End Havells / Crompton / Usha / Equivalent	Lower End Almonard / Equivalent
	a	48" Ceiling Fan 5 Star Rated (without Regulator)	Each	1444.00	1284.00
	b	48" Ceiling Fan Crompton High Speed (without Regulator)	Each	1436.00	1266.00
	c	BEE Energy efficient 1200mm sweep ceiling fan 5 star rated, inverter driven controlled by microprocessor with 300mm down rod with regulator/ remote control (35 W) (Usha / Super Fan / Equivalent)	Each	2597.00	
	5	DIMMER AND REGULATOR		Higher End Crabtree / Legrand / Hager Equivalent	Lower End Orbit / Oswin / Roma / Equivalent
	a	Fan Step Regulator 100W - 1 Module	Each	335.00	241.00
	b	Fan Step Regulator 100W - 2 Module	Each	382.00	275.00
III		PART "C"			
	1	SWITCHES			
	a	5 Amps (Flush Type)	Dozen	190.70	
	b	5 Amps (Flush Type Staircase)	Dozen	237.00	

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	2	DOUBLE POLE SWITCHES (GEM / HPL / HAVELLS / EQUIVALENT)		
	a	16 Amps DP Switch with Metal Clad (Front Handle)	Each	409.00
	b	32 Amps DP Switch with Metal Clad (Front Handle)	Each	839.00
	c	16 Amps DP Switch with Metal Clad (Side Handle)	Each	338.00
	d	32 Amps DP Switch with Metal Clad (Side Handle)	Each	761.00
	3	TRIPLE POLE SWITCHES (SIDE HANDLE) (STANDARD / HPL / HAVELLS / EQUIVALENT)		
	a	100 Amps TPN Switch with HRC Fuses Sheet Steel Double Break	Each	5755.00
	b	125 Amps TPN Switch with HRC Fuses Sheet Steel Double Break	Each	6310.00
	c	200 Amps TPN Switch with HRC Fuses Sheet Steel Double Break	Each	8157.00
	d	315 Amps TPN Switch with HRC Fuses Sheet Steel Double Break	Each	11570.00
	e	400 Amps TPN Switch with HRC Fuses Sheet Steel Double Break	Each	14900.00
	f	16 Amps TPN Metal Clad Switch with Re-wirable Fuse Units	Each	873.00
	g	32 Amps TPN Metal Clad Switch with Re-wirable Fuse Units	Each	1290.00
	h	63 Amps TPN Metal Clad Switch with Re-wirable Fuse Units	Each	2810.00
	i	100 Amps TPN Metal Clad Switch with Re-wirable Fuse Units	Each	5533.00
	j	200 Amps TPN Metal Clad Switch with Re-wirable Fuse Units	Each	8400.00
	4	SWITCH DISCONNECTOR FUSE UNITS IN SHEET STEEL ENCLOSURE (SDF) (L & T / SIEMENS / EQUIVALENT)		
	a	63A TPN Switch Disconnecter Fuse Units in Sheet Steel Enclosure with HRC fuses Double Break	Each	3555.00
	b	100A TPN Switch Disconnecter Fuse Units in Sheet Steel Enclosure with HRC fuses Double Break	Each	5979.00
	c	125A TPN Switch Disconnecter Fuse Units in Sheet Steel Enclosure with HRC fuses Double Break	Each	7059.00
	d	200A TPN Switch Disconnecter Fuse Units in Sheet Steel Enclosure with HRC fuses Double Break	Each	8867.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	e	250A TPN Switch Disconnecter Fuse Units in Sheet Steel Enclosure with HRC fuses Double Break	Each	11059.00
	f	315A TPN Switch Disconnecter Fuse Units in Sheet Steel Enclosure with HRC fuses Double Break	Each	13261.00
	g	400A TPN Switch Disconnecter Fuse Units in Sheet Steel Enclosure with HRC fuses Double Break	Each	15210.00
	5	SWITCH DISCONNECTOR FUSE UNITS IN OPEN EXECUTION (INTERIOR FOR CUBICAL) (L & T / SIEMENS / EQUIVALENT)		
	a	63A TPN Switch Disconnecter Fuse Units interior only with HRC Fuses Double Break	Each	2349.00
	b	100A TPN Switch Disconnecter Fuse Units interior only with HRC Fuses Double Break	Each	4272.00
	c	125A TPN Switch Disconnecter Fuse Units interior only with HRC Fuses Double Break	Each	5827.00
	d	200A TPN Switch Disconnecter Fuse Units interior only with HRC Fuses Double Break	Each	7519.00
	e	250A TPN Switch Disconnecter Fuse Units interior only with HRC Fuses Double Break	Each	9797.00
	f	315A TPN Switch Disconnecter Fuse Units interior only with HRC Fuses Double Break	Each	12322.00
	g	400A TPN Switch Disconnecter Fuse Units interior only with HRC Fuses Double Break	Each	14533.00
	6	FUSE UNITS (ANCHOR / EQUIVALENT)		
	a	16 Amps Porcelain Fuse Unit (500V)	Each	47.20
	b	32 Amps Porcelain Fuse Unit (500V)	Each	83.60
	c	63 Amps Porcelain Fuse Unit (500V)	Each	186.60
	d	100Amps Porcelain Fuse Unit (500V)	Each	337.00
	e	200 Amps Porcelain Fuse Unit (500V)	Each	545.00
	7	SINGLE PHASE DBS (GEM / EQUIVALENT)		
	a	4 Way DB 16 Amps / Way with Fuse & Neutral each (250V)	Each	454.00
	b	6 Way DB 16 Amps / Way with Fuse & Neutral each (250V)	Each	619.00
	c	8 Way DB 16 Amps / Way with Fuse & Neutral each (250V)	Each	766.00
	8	THREE PHASE DBS (GEM / EQUIVALENT)		
	a	4 Way TPDB 16A / Way with Fuse & Neutral Link	Each	1792.00
	b	6 Way TPDB 16A / Way with Fuse & Neutral Link	Each	2454.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	c	8 Way TPDB 16A / Way with Fuse & Neutral Link	Each	2969.00	
	d	4 Way TPDB 32A / Way with Fuse & Neutral Link	Each	2267.00	
	e	6 Way TPDB 32A / Way with Fuse & Neutral Link	Each	3033.00	
	f	8 Way TPDB 32A / Way with Fuse & Neutral Link	Each	3836.00	
	g	4 Way TPDB 63A / Way with Fuse & Neutral Link	Each	5305.00	
	h	6 Way TPDB 63A / Way with Fuse & Neutral Link	Each	6824.00	
	9	CHANGE OVER SWITCHES (GEM / HAVELLS / HPL / STANDARD / EQUIVALENT)			
	a	16 Amps Three Phase 500V 4 Pole Change Over Switch	Each	1234.00	
	b	32 Amps Three Phase 500V 4 Pole Change Over Switch	Each	1462.00	
	c	63 Amps Three Phase 500V 4 Pole Change Over Switch	Each	3194.00	
	d	100 Amps Three Phase 500V 4 Pole Change Over Switch	Each	5077.00	
	e	200 Amps Three Phase 500V 4 Pole Change Over Switch	Each	9552.00	
		CHANGE OVER SWITCHES (L&T / EQUIVALENT)			
	f	250A 3 Phase 4 Pole Change Over Switch	Each	20216.00	
	g	400A 3 phase 4 Pole Change Over Switch	Each	30886.00	
	10	MODULAR SWITCHES		Higher End Crabtree / legrand / Hager / Equivalent	Lower End Orbit / Oswin / ROMA / Equivalent
	1	Switches 6A - 230V			
	a	6A Switch 1W - 1 Module	Each	76.70	56.50
	b	6A Switch 2W - 1 Module	Each	93.70	66.60
	c	6A Switch 1W - 1 Module with Indicator	Each	103.00	73.50
	d	6A Switch 1W - 1 Module with 'Light' Marking	Each	82.70	59.00
	e	6A Switch 1W - 1 Module with 'Fan' Marking	Each	82.70	59.00
	2	Switches 16A - 230V			
	a	16A Switch 1W - 1 Module	Each	115.70	82.70
	b	16A Switch 2W - 1 Module	Each	142.80	103.00
	c	16A Switch 1W with Indicator - 1 Module	Each	136.00	98.00
	3	Switches 20A - 230V			
	a	20A 1W Switch - 1 Module	Each	150.30	108.10

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	b	20A DP 1W Switch - 2 Module	Each	250.90	179.30
	c	20A DP 1W Switch with Indicator - 2 Module	Each	264.40	190.70
	4	Switches 25A - 230V			
	a	25A SP 1W Switch with Indicator - 1 Module	Each	163.60	118.10
	5	Switches 32A - 230V			
	a	32A DP Switch with Indicator - 2 Module	Each	319.00	231.20
	11	PUSH BUTTONS			
	a	6A Push Button SP - 1 Module	Each	103.70	75.10
	b	6A Push Button SP with Indicator - 1 Module	Each	134.80	97.10
	c	6A Bell Push - 1 Module	Each	103.00	73.50
	d	6A Bell push with Indicator - 1 Module	Each	127.50	91.20
	e	6A Bell Push - 2 Module	Each	134.80	97.10
	f	6A Bell Push with Indicator - 2 Module	Each	158.60	114.00
	12	MOTOR STARTER			
	a	25A Motor Starter - 2 Module	Each	295.90	213.00
	13	FLUSH MOUNTING BOXES (GI)			
	a	Flush Box - 1/2 Module	Each	38.00	27.50
	b	Flush Box - 3 Module	Each	44.60	32.40
	c	Flush Box - 4 Module	Each	54.40	38.90
	d	Flush Box - 6 Module	Each	85.30	61.70
	e	Flush Box - 8 Module	Each	104.70	75.50
	f	Flush Box - 8 Module (2 row x 4)	Each	105.50	76.30
	g	Flush Box - 12/16 (2 row x 6) Module Metal Box	Each	141.40	101.60
	h	Flush Box - 18 Module Metal Box	Each	160.80	115.40
	14	SURFACE MOUNTING BOXES (PLASTIC)			
	a	Surface Box - 1/2 Module	Each	42.20	30.00
	b	Surface Box - 3 Module	Each	44.60	32.40
	c	Surface Box - 4 Module	Each	57.60	41.30
	d	Surface Box - 6 Module	Each	74.70	54.40
	e	Surface Box - 8 Module	Each	91.00	65.80

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	f	Surface Box - 8 (2 row x 4) Module	Each	105.60	76.30
	g	Metal Surface Box - 12/16 (2 row x 6) Module	Each	160.00	115.00
	h	Metal Surface Box - 18 Module	Each	204.00	146.30
15		COMBINED PLATES (PLASTIC)			
	a	1 Module Cover Plate	Each	62.50	45.40
	b	2 Module Cover Plate	Each	65.80	47.00
	c	3 Module Cover Plate	Each	79.50	56.70
	d	4 Module Cover Plate	Each	88.50	63.30
	e	6 Module Cover Plate	Each	124.30	89.30
	f	8 Module Cover Plate	Each	158.40	113.70
	g	8 Module Cover Plate (H)	Each	159.20	134.70
	h	12 Module Cover Plate	Each	198.30	143.10
	i	18 Module Cover Plate	Each	250.40	179.50
16		COMBINED PLATES (ALUMINIUM)			
	a	1 Module Cover Plate	Each	127.50	91.80
	b	2 Module Cover Plate	Each	134.00	93.70
	c	3 Module Cover Plate	Each	145.40	104.80
	d	4 Module Cover Plate	Each	164.10	117.80
	e	6 Module Cover Plate	Each	278.90	201.60
	f	8 Module Cover Plate	Each	308.00	222.80
	g	8 Module Cover Plate (H)	Each	391.80	282.00
	h	12 Module Cover Plate	Each	509.00	367.00
	i	18 Module Cover Plate	Each	671.00	483.00
17		SOCKET - 230V		Higher End Crabtree / legrand / Hager / Equivalent	Lower End Orbit / Oswin / ROMA / Equivalent
	a	16A 3 Pin Switched Socket - 3 Module	Each	380.00	274.50
	b	6A 5 pin Universal Socket - 2 Module	Each	118.10	85.80
	c	6/16A Socket - 3 Module	Each	214.00	154.40
	d	6/16A Socket - 2 Module	Each	181.70	130.20

Item No.	Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
IV	PART "D"		
1	PLUG AND SOCKETS		
a	5 Amps 3 Pin & 2 Pin Combined Flush Type Wall Socket only	Each	23.70
b	5 Amps / 15 Amps 3 Pin Flush Type Wall Socket only	Each	53.50
c	5 Amps 3 Pin Top	Each	33.60
d	15 Amps 3 Pin Top	Each	47.60
e	15 Amps Flush Type Switch	Each	55.50
f	10 Amps MC Plug with 3 Pin Top	Each	177.30
g	20 Amps MC Plug with 3 Pin Top	Each	202.00
h	25A Flush type Wall Socket with 25A DP MCB for AC Plug	Each	795.80
2	SINGLE PHASE WATT HOUR METERS (HPL / EQUIVALENT)		
a	AC Single Phase 230V / 250V, 50HZ 5 Amps Watt Hour Meter	Each	945.00
b	AC Single Phase 230V / 250V, 50HZ 10 Amps Watt Hour Meter.	Each	945.00
c	AC Single Phase 230V / 250V, 50HZ 20 Amps Watt Hour Meter	Each	945.00
3	THREE PHASE WATT HOUR METERS (ANCHOR / EQUIVALENT)		
a	AC 3 Phase 400V 50HZ unbalanced load 4 Wire 10 Amps Watt Hour Meter	Each	1949.00
b	AC 3 Phase 400V 50HZ unbalanced load 4 Wire 25 Amps Watt Hour Meter	Each	1949.00
c	AC 3 Phase 400V 50HZ unbalanced load 4 Wire 50 Amps Watt Hour Meter	Each	2468.00
V	PART "E"		
1	SERVICE CONNECTION ACCESSORIES L.T. 1100V PVC ALUMINIUM ARMoured UNDER GROUND CABLE WITH ISI MARK		
a	2 core 6 sq.mm. PVC Armoured UG Cable	Metre	86.40
b	2 core 10 sq.mm. PVC Armoured UG Cable	Metre	105.20
c	2 core 16 sq.mm. PVC Armoured UG Cable	Metre	114.20
d	2 core 25 sq.mm. PVC Armoured UG Cable	Metre	129.70
e	3 ¹ / ₂ core 25 sq.mm. PVC Armoured UG Cable	Metre	195.50

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	f	3 ¹ / ₂ core 35 sq.mm. PVC Armoured UG Cable	Metre	230.10
	g	3 ¹ / ₂ core 50 sq.mm. PVC Armoured UG Cable	Metre	299.80
	h	3 ¹ / ₂ core 70 sq.mm. PVC Armoured UG Cable	Metre	384.50
	i	3 ¹ / ₂ core 95 sq.mm. PVC Armoured UG Cable	Metre	497.70
	j	3 ¹ / ₂ core 120 sq.mm. PVC Armoured UG Cable	Metre	607.90
	k	3 ¹ / ₂ core 150 sq.mm. PVC Armoured UG Cable	Metre	720.00
	l	3 ¹ / ₂ core 185 sq.mm. PVC Armoured UG Cable	Metre	879.00
	m	3 ¹ / ₂ core 240 sq.mm. PVC Armoured UG Cable	Metre	1115.00
	n	3 ¹ / ₂ core 300 sq.mm. PVC Armoured UG Cable	Metre	1368.00
	o	3 ¹ / ₂ core 400 sq.mm. PVC Armoured UG Cable	Metre	1744.00
	p	4 core 6 sq.mm. PVC Armoured UG Cable	Metre	111.90
	q	4 core 10 sq.mm. PVC Armoured UG Cable	Metre	122.70
	r	4 core 16 sq.mm. PVC Armoured UG Cable	Metre	161.70
	2	PVC INSULATED SINGLE CORE MULTI STRAND FIRE RETARDANT FLEXIBLE COPPER CABLE WITH ISI MARK CONFORMING TO IS		
	a	14 / 0.3 (1.0 sq.mm.)	Metre	8.55
	b	22 / 0.3 (1.5 sq.mm.)	Metre	13.50
	c	36 / 0.3 (2.5 sq.mm.)	Metre	21.00
	d	56 / 0.3 (4 sq.mm.)	Metre	33.30
	e	84 / 0.3 (6 sq.mm.)	Metre	49.30
	f	140 / 0.3 (10 sq.mm.)	Metre	74.20
	g	101 / 0.45 (16 sq.mm.)	Metre	121.30
	h	168 / 0.45 (25 sq.mm.)	Metre	266.50
	3	CONDUCTOR		
	a	Hard Drawn Copper Conductor (Gauge No. 8&6)	KG	500.00
	b	14 SWG TC Wire	KG	513.00
	c	GI No.8 Wire and No.6 Wire	KG	82.60
	4	CABLE GLANDS		
	a	Cable Gland suitable for 2 core 4 sq.mm. UG Cable	Each	18.00
	b	Cable Gland suitable for 2 core 6 sq.mm. UG Cable	Each	22.50

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	c	Cable Gland suitable for 2 core 10 sq.mm. UG Cable	Each	26.90
	d	Cable Gland suitable for 2 core 16 sq.mm. UG Cable	Each	39.80
	e	Cable Gland suitable for 2 core 25 sq.mm. UG Cable	Each	47.60
	f	Cable Gland suitable for 3 ¹ / ₂ core 25 sq.mm. UG Cable	Each	47.60
	g	Cable Gland suitable for 3 ¹ / ₂ core 35 sq.mm. UG Cable	Each	60.50
	h	Cable Gland suitable for 3 ¹ / ₂ core 50 sq.mm. UG Cable	Each	60.50
	I	Cable Gland suitable for 3 ¹ / ₂ core 70 sq.mm. UG Cable	Each	74.60
	j	Cable Gland suitable for 3 ¹ / ₂ core 95 sq.mm. UG Cable	Each	91.10
	k	Cable Gland suitable for 3 ¹ / ₂ core 120 sq.mm. UG Cable	Each	116.00
	l	Cable Gland suitable for 3 ¹ / ₂ core 150 sq.mm. UG Cable	Each	152.70
	m	Cable Gland suitable for 3 ¹ / ₂ core 185 sq.mm. UG Cable	Each	180.60
	n	Cable Gland suitable for 3 ¹ / ₂ core 240 sq.mm. UG Cable	Each	180.60
	o	Cable Gland suitable for 3 ¹ / ₂ core 300 sq.mm. UG Cable	Each	215.70
	p	Cable Gland suitable for 3 ¹ / ₂ core 400 sq.mm. UG Cable	Each	306.90
	q	Cable Gland suitable for 3 ¹ / ₂ core 500 sq.mm. UG Cable	Each	357.80
	r	Cable Gland suitable for 4 core 6 sq.mm. UG Cable	Each	22.50
	s	Cable Gland suitable for 4 core 10 sq.mm. UG Cable	Each	26.90
	t	Cable Gland suitable for 4 core 25 sq.mm. UG Cable	Each	47.60
	5	FUSE WIRE (COPPER)		
	a	5 Amps Fuse Wire	KG	500.00
	b	10 Amps Fuse Wire	KG	500.00
	c	20 Amps Fuse Wire	KG	500.00
	6	NEUTRAL LINK 15 AMPS		
	a	4 Way Neutral Link	Each	24.80
	b	6 Way Neutral Link	Each	36.70
	c	8 Way Neutral Link	Each	45.80
	d	12 Way Neutral Link	Each	66.60
VI		PART "F"		
	1	MS BOX WITH PAINTING (16 SWG)		
	a	MS Box of size 100 x 100 x 75 mm	Each	39.70
	b	MS Box of size 150 x 100 x 75 mm	Each	54.90

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	c	MS Box of size 200 x 150 x 75 mm	Each	89.30
	d	MS Box complete with Lock & Key arrangements with painting of size 300 x 200 x 100mm	Each	270.00
	2	Synthetic Moulded Compound Box for Street Light	Each	735.00
VII		PART "G"		
	1	MS ANGLES		
	a	1 ¹ / ₂ "x1 ¹ / ₂ "x ¹ / ₄ " (37.5 x 37.5 x 6.24mm) (1M=3.25 kg)	KG	44.70
	b	1 ¹ / ₂ " x 1 ¹ / ₂ " x ¹ / ₂ " (37.5 x 37.5 x 12.5mm)	KG	44.70
	c	2" x 2" x ¹ / ₂ " (50 x 50 x 12.5mm)	KG	44.70
	2	ALUMINIUM FLAT		
	a	Aluminium Flat (1" x ¹ / ₄ ") (25 x 6.25mm)	KG	155.80
	b	Aluminium Flat (1" x ¹ / ₈ ")	KG	155.80
	3	COPPER FLAT		
	a	Copper Flat (25 x 3mm)	KG	458.00
	b	Copper Flat (25 x 6mm)	KG	458.00
	c	Copper Flat (33 x 6mm)	KG	458.00
	d	Copper Flat (50 x 6mm)	KG	458.00
	4	POWER CAPACITOR		
	a	Power capacitor for power factor improvement with oil filled with discharge resistance 3 phase 415 / 440V 50 HZ conforming to ISS with ISI marking	KVAR	312.00
VIII		PART "H"		
	1	CONDUIT MATERIALS 16 GAUGE		
	a	Conduit Pipe 16mm (5/8") Heavy Gauge	Metre	27.20
	b	Conduit Pipe 19mm (3/4") Heavy Gauge	Metre	28.10
	c	Conduit Pipe 25mm (1") Heavy Gauge	Metre	34.60
	d	Conduit Pipe 32mm (1 ¹ / ₄ ") Heavy Gauge	Metre	45.40
	e	Conduit Pipe 38mm (1 ¹ / ₂ ") Heavy Gauge	Metre	53.50
	2	CONDUIT TEE BENDS		
	a	Conduit Tee Bend 16mm (5/8")	Dozen	76.30
	b	Conduit Tee Bend 19mm (3/4")	Dozen	77.10
	c	Conduit Tee Bend 25mm (1")	Dozen	92.60

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	d	Conduit Tee Bend 32mm (1 ¹ / ₄ "	Dozen	95.80
	e	Conduit Tee Bend 38mm (1 ¹ / ₂ "	Dozen	119.40
	f	Conduit Tee Bend 50mm (2"	Dozen	149.20
	3	CONDUIT BENDS - 16 GAUGE		
	a	Conduit Solid Bend 16mm (5/8"	Dozen	72.20
	b	Conduit Solid Bend 19mm (3/4"	Dozen	80.40
	c	Conduit Solid Bend 25mm (1"	Dozen	95.00
	d	Conduit Solid Bend 32mm (1 ¹ / ₄ "	Dozen	112.20
	e	Conduit Solid Bend 38mm (1 ¹ / ₂ "	Dozen	159.20
	f	Conduit Solid Bend 50mm (2"	Dozen	194.90
	4	CONDUIT INSPECTION BEND-16 GAUGE		
	a	Conduit Inspection Bend 16mm (5/8"	Dozen	72.20
	b	Conduit Inspection Bend 19mm (3/4"	Dozen	74.70
	c	Conduit Inspection Bend 25mm (1"	Dozen	95.80
	d	Conduit Inspection Bend 32mm (1 ¹ / ₄ "	Dozen	115.40
	e	Conduit Inspection Bend 38mm (1 ¹ / ₂ "	Dozen	149.40
	f	Conduit Inspection Bend 50mm (2"	Dozen	169.80
	g	Conduit Inspection Bend 65mm (2 ¹ / ₂ "	Dozen	218.60
	5	HDPE Pipe		
	a	HDPE Pipe 50mm / 38mm	RM	101.00
	b	HDPE Pipe 90mm / 76mm	RM	208.00
	c	HDPE Pipe 120mm / 103.50mm	RM	259.50
	6	Cable Tray		Manibhadra / Equivalent
	a	GI Hot Dip / Powder Coated 16 SWG Cable Tray with 150mm width and 50mm height	RM	322.00
	b	GI Hot Dip / Powder Coated 16 SWG Cable Tray with 300mm width and 50mm height	RM	393.00
IX		PART "I"		
	1	PVC (RIGID) PIPES (1.8MM THICK) WITH ISI		
	a	PVC Rigid Pipe 16mm (5/8"	Metre	11.70
	b	PVC Rigid Pipe 20mm (3/4"	Metre	17.10

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	c	PVC Rigid Pipe 25mm (1")	Metre	25.40
	d	PVC Rigid Pipe 32mm (1 ¹ / ₄ ")	Metre	38.40
	e	PVC Rigid Pipe 40mm (1 ¹ / ₂ ")	Metre	54.90
	f	PVC Rigid Pipe 50mm (2")	Metre	82.20
	2	PVC RIGID BENDS		
	a	PVC Rigid Bend 16mm (5/8")	Each	2.70
	b	PVC Rigid Bend 20mm (3/4")	Each	2.70
	c	PVC Rigid Bend 25mm (1")	Each	3.70
	d	PVC Rigid Bend 32mm (1 ¹ / ₄ ")	Each	6.60
	e	PVC Rigid Bend 40mm (1 ¹ / ₂ ")	Each	16.50
	f	PVC Rigid Bend 50mm (2")	Each	20.10
	3	PVC COUPLES		
	a	PVC Couples 16mm (5/8")	Dozen	11.80
	b	PVC Couples 19mm (3/4")	Dozen	11.80
	c	PVC Couples 25mm (1")	Dozen	23.00
	d	PVC Couples 32mm (1 ¹ / ₄ ")	Dozen	52.60
	e	PVC Couples 38mm (1 ¹ / ₂ ")	Dozen	112.70
	f	PVC Couples 50mm (2")	Dozen	117.70
	4	PVC TEES		
	a	PVC Tee 16mm (5/8")	Dozen	11.80
	b	PVC Tee 19mm (3/4")	Dozen	13.70
	c	PVC Tee 25mm (1")	Dozen	17.50
	d	PVC Tee 32mm (1 ¹ / ₄ ")	Dozen	78.50
	e	PVC Tee 38mm (1 ¹ / ₂ ")	Dozen	252.00
	f	PVC Tee 50mm (2")	Dozen	276.00
	5	PVC SADDLES		
	a	PVC Saddles 16mm (5/8")	Dozen	2.70
	b	PVC Saddles 19mm (3/4")	Dozen	3.10
	c	PVC Saddles 25mm (1")	Dozen	3.60
	d	PVC Saddles 32mm (1 ¹ / ₄ ")	Dozen	4.50

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	e	PVC Saddles 38mm (1 ¹ / ₂ ")	Dozen	5.50	
	f	PVC Saddles 50mm (2")	Dozen	11.00	
	6	PVC JUNCTION BOXES			
	a	Junction Boxes 1, 2, 3 & 4 way 16mm (5/8")	Dozen	36.80	
	b	Junction Boxes 1, 2, 3 & 4 way 19mm (3/4")	Dozen	36.80	
	c	Junction Boxes 1, 2, 3 & 4 way 25mm (1")	Dozen	43.30	
	d	Junction Boxes 1, 2, 3 & 4 way 32mm (1 ¹ / ₄ ")	Dozen	96.20	
	e	Junction Boxes 1, 2, 3 & 4 way 38mm (1 ¹ / ₂ ")	Dozen	114.30	
	7	PVC HYLEM SHEETS			
	a	Hylem Sheet 3mm Thick	Sq.m	563.00	
	8	INSULATION TAPE PVC			
	a	PVC Insulation Tape (19mm)	Roll / 10 mtr.	13.70	
	b	Empire Tape (12mm)	Roll / 10 mtr.	18.40	
	c	Empire Tape (19mm)	Roll / 10 mtr.	22.10	
X		PART "J"			
		TEAK WOOD MATERIALS			
	1	TW BOX CONCEALED TYPE			
	a	TW Box Concealed Type 12" x 8" x 3"	Each	69.90	
	b	TW Box Concealed Type 8" x 6" x 3"	Each	37.10	
	c	TW Box Concealed Type 6" x 4" x 3"	Each	16.50	
	d	TW Box Concealed Type 4" x 4" x 3"	Each	13.80	
	e	TW Plugs 1 ¹ / ₂ " x 1" x 2"	1000 Nos.	287.00	
	f	TW Round blocks	100 Nos.	558.00	
XI		PART "K"			
	1	CRIMPING LUGS SUITABLE FOR THE FOLLOWING SIZES			
		Size		Aluminium	Copper
	a	4.0 sq.mm.	Each	1.27	3.89
	b	6.0 sq.mm.	Each	1.42	3.89

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	c	10.0 sq.mm.	Each	1.84	4.90
	d	16.0 sq.mm.	Each	1.84	5.90
	e	25.0 sq.mm.	Each	2.80	9.85
	f	35.0 sq.mm.	Each	3.70	10.85
	g	50.0 sq.mm.	Each	5.55	12.80
	h	70.0 sq.mm.	Each	7.40	20.80
	i	95.0 sq.mm.	Each	8.40	25.80
	j	120.0 sq.mm.	Each	11.25	35.65
	k	150.0 sq.mm.	Each	15.00	45.60
	l	185.0 sq.mm.	Each	19.60	69.45
	m	225.0 sq.mm.	Each	29.10	99.10
	n	240.0 sq.mm.	Each	31.90	99.10
	o	300.0 sq.mm.	Each	44.10	133.70
	p	400.0 sq.mm.	Each	65.90	203.20
	2	CABLE ROUTE INDICATOR			
	a	Cable Route Indicator for LT Cable	Each Box	66.20	
	b	Cable Route Indicator for HT Cable	Each Box	66.20	
XII		PART "L"			
	1	BRASS SCREWS			
	a	Brass Screws (20mm) 3/4" No.6	Gross	59.10	
	b	Brass Screws (25mm) 1" No.6	Gross	63.70	
	c	Brass Screws (40mm) 1 1/2" No.6	Gross	68.20	
	d	Brass Screws (20mm) 3/4" No.8	Gross	59.10	
	e	Brass Screws (25mm) 1" No.8	Gross	63.70	
	f	Brass Screws (50mm) 2" No.10	Gross	131.70	
	g	Brass Screws (75mm) 3" No.10	Gross	194.90	
	2	Coach Screws 2" x 1/4" (50 x 6.25mm)	Dozen	11.70	
	3	CONDUIT SADDLES			
	a	Conduit Saddles 16mm (5/8")	Gross	36.30	

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	b	Conduit Saddles 19mm (3/4")	Gross	38.70	
	c	Conduit Saddles 25mm (1")	Gross	45.40	
	d	Conduit Saddles 32mm (1 1/4")	Gross	59.10	
	e	Conduit Saddles 38mm (1 1/2")	Gross	72.50	
	f	Conduit Saddles 50mm (2")	Gross	81.90	
	g	Conduit Saddles 65mm (2 1/2")	Gross	93.30	
	4	SODIUM VAPOUR FITTINGS & LAMP (FOR EXTERNAL ELECTRIFICATION AND CAMPUS LIGHTING)			
	a	250 Watts Sodium Vapour Fittings	Each	2997.00	
	b	250 Watts Sodium Vapour Lamp	Each	662.00	
	c	150 Watts Sodium Vapour Fittings	Each	2954.00	
	d	150 Watts Sodium Vapour Lamp	Each	567.00	
	e	70 Watts Sodium Vapour Fittings	Each	2383.00	
	f	70 Watts Sodium Vapour Lamp	Each	377.00	
	5	SODIUM VAPOUR LAMP FITTING SINGLE PIECE DIE CAST ALUMINIUM HOUSING AND LAMP FOR HEAVY TRAFFIC ROADS (PHILIPS / CROMPTON GREAVES / WIPRO / BAJAJ / EQUIVALENT)			
	a	400 Watts Sodium Vapour Fittings	Each	8958.00	
	b	400 Watts Sodium Vapour Lamp	Each	929.00	
	c	250 Watts Sodium Vapour Fittings	Each	6110.00	
	d	250 Watts Sodium Vapour Lamp	Each	751.00	
	e	150 Watts Sodium Vapour Fittings	Each	5736.00	
	f	150 Watts Sodium Vapour Lamp	Each	617.00	
	g	70 Watts Sodium Vapour Fittings	Each	2454.00	
	h	70 Watts Sodium Vapour Lamp	Each	425.00	
	6	MINIATURE CIRCUIT BREAKERS 240 V / 415V 50HZ - AC SUPPLY SUITABLE FOR BOTH LIGHTING AND MOTOR CIRCUITS		Legrand/ Hager / Equivalent	All other makes with ISI (Std.) / HPL / Havells / Equivalent)
	a	Single Pole 6A to 32A, 10KA	Each	172.00	126.00
	b	Single Pole 40A, 10KA	Each	354.00	263.00
	c	Single Pole & Neutral 6A to 32A, 10KA	Each	506.00	382.00
	d	Single Pole & Neutral 40A, 10KA	Each	821.00	530.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	e	Double Pole 6A to 32A, 10KA	Each	506.00	420.00
	f	Double Pole 40A, 10KA	Each	821.00	576.00
	g	Triple Pole 6A to 32A,10KA	Each	814.00	635.00
	h	Triple Pole 63A,10KA	Each	1239.00	1011.00
	i	Triple Pole & Neutral 6A to 32A,10KA	Each	1072.00	827.00
	j	Triple Pole & Neutral 63A, 10KA	Each	1601.00	1275.00
	k	Four Pole 6 A to 32A, 10KA	Each	1072.00	886.00
	l	Four Pole 63A, 10KA	Each	1601.00	1358.00
	7	PLUG AND SOCKETS IN SHEET STEEL ENCLOSURE WITHOUT MCBs		Legrand (MDS) / Hager (L&T) / Equivalent	All other makes with ISI (Std.) / HPL / Havells / Equivalent)
	a	10A Single Pole	Each	838.00	496.00
	b	20A Single Pole	Each	895.00	502.00
	c	20A Double Pole	Each	969.00	--
	d	20A Triple Pole	Each	1643.00	953.00
	e	32A Triple Pole	Each	1960.00	1290.00
	f	63A Triple Pole	Each	7986.00	--
	8	Sheet Steel Enclosure for MCB's		Legrand/ Equivalent	Havells/ Equivalent
	a	2 Pole	Each	371.00	258.00
	b	4 pole	Each	544.00	316.00
	9	RCCB / ELCB			
	a	10 Amps 30 MA DP	Each	2364.00	1737.00
	b	25 Amps 30 MA DP	Each	1949.00	1492.00
	c	40 Amps 30 MA DP	Each	2157.00	1576.00
	10	RCCB / ELCB (FOUR POLE)			
	a	25 Amps 30 MA	Each	2685.00	1840.00
	b	40 Amps 30 MA	Each	2716.00	1882.00
	c	63 Amps 30 MA	Each	3142.00	2136.00
	11	HRC - FUSES			
	a	16 Amps	Each	60.50	29.50
	b	32 Amps	Each	62.80	49.50

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	c	63 Amps	Each	129.50	62.40
	d	125 Amps	Each	302.00	138.40
	e	160 Amps	Each	377.00	186.60
	f	200 Amps	Each	389.00	186.60
	g	250 Amps	Each	541.00	275.70
	12	MCB ISOLATORS		Legrand (MDS) / Hager (L&T) / Equivalent	All other makes with ISI (Std.) / HPL / Havells / Equivalent)
	a	32A - DP	Each	265.60	--
	b	32A - TP	Each	444.00	--
	c	32A - FP	Each	508.00	--
	d	40A - DP	Each	367.00	254.00
	e	40A - TP	Each	636.00	467.00
	f	40A - FP	Each	818.00	570.00
	g	63A - DP	Each	492.00	323.00
	h	63A - TP	Each	840.00	509.00
	i	63A - FP	Each	895.00	595.00
	j	100A - DP	Each	--	417.00
	k	100A - TP	Each	923.00	663.00
	l	100A - FP	Each	943.00	725.00
	13	MCCB		L&T / Equivalent	
	a	400A 4 Pole MCCB	Each	29125.00	
	b	400A Spreader Terminal	Each	2787.00	
	c	Rotary Handle for 400A/ 630A	Each	2272.00	
	d	250A 4 Pole MCCB	Each	21595.00	
	e	250A Spreader Terminal	Each	1368.00	
	f	Rotary Handle for 250A/125A	Each	1392.00	
	g	630A 3 Pole MCCB	Each	28555.00	
	h	630A Spreader Terminal	Each	3270.00	
	i	400A 3 Pole MCCB	Each	23320.00	

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	j	400A Spreader Terminal	Each	1940.00	
	k	250A 3 Pole MCCB	Each	17675.00	
	l	Spreader Terminal for 250A/125A	Each	1127.00	
	m	125A 3 Pole MCCB	Each	8577.00	
	14	HORIZONTAL THREE PHASE DISTRIBUTION BOARD WITH MCBS 4 way / 6 way / 8 way / 12 way TPMCB sheet steel distribution boards flush type / surface type fitted with bus bars and neutral links with single / three phase MCB outgoings and separate 4 way provision for accommodating One No. 4 pole incoming MCB / Isolator and another separate 4 way provision for accommodating One No. 4 pole ELCB / RCD with label holder and provisions for taking up cable for size not less than 35 sq.mm.		Legrand (MDS) / Hager (L&T) / Equivalent	All other makes with ISI (Std.) / HPL / Havells / Equivalent)
	1	TPMCB DB with Metal Door Cover with IP42 Protection			
	a	4 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 12	Each	2240.00	1773.00
	b	6 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 18	Each	2758.00	2240.00
	c	8 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 24	Each	3308.00	2748.00
	d	12 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 36	Each	4885.00	3733.00
	2	TPMCB DB with Acrylic Door Cover with IP42 Protection			
	a	4 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 12	Each	2602.00	--
	b	6 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 18	Each	3194.00	--
	c	8 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 24	Each	3816.00	--

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	d	12 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 36	Each	5817.00	--
	3	Industrial Type TPMCB DB with IP54 Protection			
	a	4 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 12	Each	6316.00	--
	b	6 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 18	Each	7602.00	--
	c	8 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 24	Each	8318.00	--
	d	12 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 36	Each	11483.00	--
	15	VERTICAL THREE PHASE DISTRIBUTION BOARD WITH MCBS 4 way / 8 way / 12 way vertical TPMCB sheet steel distribution boards flush type / surface type fitted with bus bars and neutral links with single / three phase MCB outgoings and separate 4 way provision for accommodating One No. 4 pole incoming MCB / Isolator and another separate 4 way provision for accommodating One No. 4 pole ELCB / RCD with label holder and provisions for taking up cable for size not less than 35 sq.mm.		Legrand (MDS) / Hager (L&T) / Equivalent	All other makes with ISI (Std.) / HPL / Havells / Equivalent)
	1	TPMCB DB with Metal Door Cover with IP42 Protection			
	a	4 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 12	Each	5351.00	4397.00
	b	8 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 24	Each	6783.00	5413.00
	c	12 ways 3 phase DB No. of ways incomer MCB/Isolatore - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoings ways - 36	Each	9044.00	6658.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	2	TPMCB DB with Acrylic Door Cover with IP42 Protection			
	a	4 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoing ways - 12	Each	6461.00	--
	b	8 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoing ways - 24	Each	8225.00	--
	c	12 ways 3 phase DB No. of ways incomer MCB/Isolatore - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoing ways - 36	Each	10938.00	--
	d	6 Way Vertical TPN Distributions boards; IP43 with double door (Metal); with 12 module incomers and 18 Single Phase/Three Phase/ MCB's outgoing; as per IS	Each	9919.00	-
	4	Industrial Type TPMCB DB with IP54 Protection			
	a	4 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoing ways - 12	Each	9999.00	--
	b	8 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoing ways - 24	Each	12069.00	--
	c	12 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of outgoing ways - 36	Each	16180.00	--
	16	7 SEGMENTS (3 TIER) 3 PHASE DISTRIBUTION BOARD WITH MCB 4 way / 6 way / 8 way / 12 way TPMCB sheet steel distribution boards flush type / surface type fitted with bus bars and neutral links with single / three phase MCB outgoings and separate 4 way provision for accommodating One No. 4 pole incoming MCB / Isolator and another separate 4 way provision for accommodating One No. 4 pole ELCB / RCD (totally 8 ways in one segment) (3 x 4 ways in each segment) and separate provisions for MCB / Isolator (totally 12 Nos.) for sub incomers in 3 segments with label holder and provisions for taking up cable for size not less than 35 sq.mm.		Legrand (MDS) / Hager (L&T) / Equivalent	All other makes with ISI (Std.) / HPL / Havells / Equivalent)
	1	TPMCB DB with Metal / Acrylic Door Cover with IP 42 Protection			
	a	4 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of sub-incomers - 12 No. of outgoing ways - 12	Each	5258.00	--

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	b	6 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of sub-incomers - 12 No. of outgoing ways - 18	Each	5942.00	--
	c	8 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of sub-incomers - 12 No. of outgoing ways - 24	Each	6627.00	--
	d	12 ways 3 phase DB No. of ways incomer MCB / Isolator - 4 No. of ways incomer ELCB / RCD - 4 No. of sub-incomers - 12 No. of outgoing ways - 36	Each	8442.00	--
	17	Vertical TPN Distribution Boards (with MCCB Incomer); Double Door; IP43, as per IS 8623 III; Impact resistance IK09; Frame MCCB Incomer & Single Phase/Three Phase MCBs as Outgoing (for power loads exceeding 100A)		Hager / Equivalent (Incomer 160A MCCB)	Hager / Equivalent (Incomer 250A MCCB)
	a	4 Way, MCCB + 12 Modules	Each	8958.00	16590.00
	b	6 Way, MCCB + 18 Modules	Each	10350.00	18070.00
	c	8 Way, MCCB + 24 Modules	Each	11280.00	19290.00
	d	12 Way, MCCB + 36 Modules	Each	15020.00	20450.00
	e	16 Way, MCCB + 48 Modules	Each	17745.00	23020.00
	18	SINGLE PHASE DISTRIBUTION BOARD WITH MCBs 4 way / 8 way / 12 way vertical SPMCB sheet steel distribution boards flush type / surface type fitted with bus bars and neutral links with single phase MCB outgoing and separate 2 way provision for accommodating One No. 2 pole incoming MCB / Isolator and another separate 2 way provision for accommodating One No. 2 pole ELCB / RCD with label holder and provisions for taking up cable for size not less than 35 sq.mm.		Legrand (MDS) / Hager (L&T) / Equivalent	All other makes with ISI (Std.) / HPL / Havells / Equivalent)
	1	SPMCB DB with Metal Door Cover with IP42 Protection			
	a	4 ways single phase DB No. of ways incomer MCB / Isolator - 2 No. of ways incomer ELCB / RCD - 2 No. of outgoing ways - 2	Each	881.00	576.00
	b	8 ways single phase DB No. of ways incomer MCB / Isolator - 2 No. of ways incomer ELCB / RCD - 2 No. of outgoing ways - 6	Each	1101.00	787.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	c	12 ways single phase DB No. of ways incomer MCB / Isolator - 2 No. of ways incomer ELCB / RCD - 2 No. of outgoings ways - 10	Each	1326.00	1014.00
	2	SPMCB DB with Acrylic Door Cover with IP 42 Protection			
	a	4 ways single phase DB No. of ways incomer MCB / Isolator - 2 No. of ways incomer ELCB / RCD - 2 No. of outgoings ways - 2	Each	1039.00	--
	b	8 ways single phase DB No. of ways incomer MCB / Isolator - 2 No. of ways incomer ELCB / RCD - 2 No. of outgoings ways - 6	Each	1225.00	--
	c	12 ways single phase DB No. of ways incomer MCB / Isolator - 2 No. of ways incomer ELCB / RCD - 2 No. of outgoings ways - 10	Each	1486.00	--
	3	Industrial Type SPMCB DB with IP 54 Protection			
	a	4 ways single phase DB No. of ways incomer MCB / Isolator - 2 No. of ways incomer ELCB / RCD - 2 No. of outgoings ways - 2	Each	2654.00	--
	b	8 ways single phase DB No. of ways incomer MCB / Isolator - 2 No. of ways incomer ELCB / RCD - 2 No. of outgoings ways - 6	Each	3109.00	--
	c	12 ways single phase DB No. of ways incomer MCB / Isolator - 2 No. of ways incomer ELCB / RCD - 2 No. of outgoings ways - 10	Each	3584.00	--
XIII		PART "M"			
	1	TRANSFORMERS			Kirloskar / CREL / Rowsons / (OEM)
	a	250 KVA, 11 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2)	Each	834000.00	
	b	500 KVA, 11 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2)	Each	1145000.00	
	c	630 KVA, 11 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2)	Each	1467000.00	
	d	1000 KVA, 11 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2)	Each	1871000.00	
	e	250 KVA, 22 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2)	Each	938000.00	

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	f	500 KVA, 22 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2)	Each	1249000.00
	g	630 KVA, 22 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2)	Each	1570000.00
	h	1000 KVA, 22 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2)	Each	1975000.00
	2	11 KV INDOOR VACCUM CIRCUIT BREAKER		Megawin/Pentagon/(OEM)
	a	11 KV, 25 KA, 630 A, HT Indoor Single Panel Vaccum Circuit Breaker complete as per specification	Each	405000.00
	b	11 KV, 25 KA, 630 A, HT Indoor Three Panel Vaccum Circuit Breaker complete as per specification	Each	1031000.00
	c	11 KV, 25 KA, 630 A, HT Indoor Four Panel Vaccum Circuit Breaker complete as per specification	Each	1463000.00
	d	11 KV, 25 KA, 630 A, HT Indoor Five Panel Vaccum Circuit Breaker complete as per specification	Each	1754000.00
	3	11 KV OUTDOOR VACCUM CIRCUIT BREAKER		Megawin/Pentagon/(OEM)
	a	11 KV, 25 KA, 630 A, HT Outdoor Single Panel Vaccum Circuit Breaker complete as per specification	Each	423000.00
	b	11 KV, 25 KA, 630 A, HT Outdoor Three Panel Vaccum Circuit Breaker complete as per specification	Each	1057000.00
	c	11 KV, 25 KA, 630 A, HT Outdoor Four Panel Vaccum Circuit Breaker complete as per specification	Each	1480000.00
	d	11 KV, 25 KA, 630 A, HT Outdoor Five Panel Vaccum Circuit Breaker complete as per specification	Each	1772000.00
	4	11 KV INDOOR RING MAIN GEAR (RMG)		Megawin / Voltech / (OEM)
	a	11 KV, 25 KA, 630 A, HT Indoor Three Panel Ring Main Gear complete as per specification	Each	589000.00
	5	11 KV OUTDOOR RING MAIN GEAR (RMG)		Megawin / Voltech / (OEM)
	a	11 KV, 25 KA, 630 A, HT Outdoor Three Panel Ring Main Gear complete as per specification	Each	617000.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	6	HT CABLES		Polycab / Equivalent
	a	240 sq.mm. 3 core HT XLPE 11KV (E) SISMV11E3 x 2402797	Mtr	1710.00
	b	300 sq.mm. 3 core HT XLPE 11KV (E) SISMV11E3 x 3002797	Mtr	1990.00
	c	300 sq.mm. 3 core HT XLPE 11KV (UE) SISMV11U3 x 3002424	Mtr	2333.00
	7	CABLES, ACCESSORIES AND KITS		Raychem RPG / Equivalent
	a	120-185 sq.mm. 3 core HT Cable Indoor Terminations XLPE 11KV (E) - EPKT 3111	Each	9583.00
	b	240-300 sq.mm. 3 core HT Cable Indoor Terminations XLPE 11KV (E) - EPKT 3121	Each	10220.00
	c	120-185 sq.mm. 3 core HT Cable Outdoor Terminations XLPE 11KV (E) - EPKT 3362	Each	13230.00
	d	240-300 sq.mm. 3 core HT Cable Outdoor Terminations XLPE 11KV (E) - EPKT 3372	Each	14880.00
	e	240-400 sq.mm. 3 core HT Cable Indoor Terminations 11 KV (UE) - Belted PILC Cables - EPKT 4685	Each	13500.00
	f	240-400 sq.mm. 3 core HT Cable Outdoor Terminations 11 KV (UE) - Belted PILC Cables - EPKT 4961	Each	17900.00
	g	150-185 sq.mm. 3 core HT Cable Outdoor Terminations 22KV(E) Screened XLPE Cables - EPKT 5363	Each	18980.00
	h	240-400 sq.mm. 3 core HT Cable Outdoor Terminations 22KV(E) Screened XLPE Cables-EPKT 5373	Each	25250.00
	i	185-240 sq.mm 3 core HT Cables Straight Through Joints 22KV (E) Screened XLPE Cables-EPKJ 5118	Each	49690.00
	j	300-400 sq.mm. 3 core HT Cable Straight Thorough Joints 22KV (E) Screened XLPE Cables - EPKJ 5119	Each	55440.00
	8	Safety Accessories		
	a	AC Chargeable Emergency Lamp 2 x 11W PL Lamp with all connected accessories	Each	3181.00
	b	2m x 1m Rubber Mat suitable for 11 KV installation confirming to IS	Set (5 Nos.)	18558.00
	c	First Aid Box complete with all First Aid Medicines	Each	1696.00
	d	Shock Treatment Chart fixed in glass frame	Each	1696.00
	e	4 Nos. Fire Buckets made out of 40 x 40 x 6mm MS Angle	Each	4666.00
	f	Hand Gloves 11KV Grade	Each	1908.00
	g	Danger Board as required by the Electrical Authorities	Each	1590.00
	h	Fire Extinguisher Co2, 4.5 kg. confirming to TAC Norms	Each	1432.00
	i	Earth Discharge Rod	Each	3711.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
XIV		PART "N"			
	1	SUPPLY & INSTALLATION OF AIR-CONDITIONER WITH COPPER COIL		3 Star Rated (Carrier / Voltas / Blue Star / Equivalent)	5 Star Rated Inverter (Carrier / Voltas / O General/ Equivalent)
	a	1.5 TR Split Type AC Unit	Each	31100.00	41400.00
	b	2.0 TR Split Type AC Unit	Each	41400.00	52800.00
	c	Supply and installation of 4 KVA capacity Automatic Voltage Stabilizer with time delay relay (V-Gurad / Equivalent)	Each	4160.00	
	d	Supply and installation of 5 KVA capacity Automatic Voltage Stabilizer with time delay relay (V-Gurad / Equivalent)	Each	4625.00	
	e	Supply and laying of 5/8" and 3/8" copper pipe (Extra beyond 3 metres supplied with AC unit)	Each	880.00	
	f	Supply and fixing of MS stand for fixing outdoor unit	Each	1020.00	
	2	SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND HANDING OVER OF AIR-COOLED SELF CONTAINED DUCTABLE AC UNITS		ETA (OEM)	
	a	3.0 TR Ceiling Suspended Ductable Unit	Each	91900.00	
	b	5.5 TR Ceiling Suspended Ductable Unit	Each	158500.00	
	c	8.5 TR Ceiling Suspended Ductable Unit	Each	216000.00	
	d	11 TR Ceiling Suspended Ductable Unit	Each	278700.00	
	e	17 TR Ceiling Suspended Ductable Unit	Each	404000.00	
	f	5.5 TR Floor Mounted Ductable Unit	Each	335000.00	
	g	8.5 TR Floor Mounted Ductable Unit	Each	346000.00	
	h	11 TR Floor Mounted Ductable Unit	Each	380000.00	
	i	17 TR Floor Mounted Ductable Unit	Each	543000.00	
	j	25 TR Floor Mounted Ductable Unit	Each	653000.00	
	3	ACCESSORIES FOR PACKAGE AC			
	a	Supply and filling of R-22 Refrigerant Gas	KG	536.00	
	b	Supply and fixing of Copper Refrigerant Piping of 7/8" dia	RM	972.00	
	c	Supply and fixing of Flexible Canvas Connection	Each	2592.00	

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	d	Supply and fixing of 50mm thick Anti Vibrating Rubber Pads	Sqm.	509.00
	e	Supply, Fabrication and erection of fabricated ducting made up of GI Sheets of 24 Gauge thickness	RM	795.00
	f	Supply, Fabrication and erection of fabricated ducting made up of GI sheets of 22 Gauge thickness	Sqm.	1064.00
	g	Supply, Fabrication and erection of fabricated ducting made up of GI sheets of 20 Gauge thickness	Sqm.	1323.00
	h	Supply and fixing of extruded aluminum powder coated, Supply and return Air Grilles / Diffusers with Volume Control Damper	Sqm.	7408.00
	i	Supply and fixing of water drain pipe line (1" PVC Pipe)	RM	60.00
	j	Supply, fabrication and fixing of MS Channel for Mounting the Airconditioning Indoor Unit	Each	6852.00
	k	Supply, fabrication and fixing of MS Channel for Mounting the Airconditioning Outdoor Unit	Each	5832.00
	l	Supply and providing of pipeline nitrle rubber insulation for Refrigerant and drain pipe lines.	RM	51.80
	m	Supply and fixing of Duct Mouth Dampers	Set	2220.00
	n	Supply and providing acoustic for initial portion of ducting with 12mm thick Fibre Glass Rigid Board covered with Tissue Paper and Aluminum Perforated Sheet	Sqm.	788.00
	o	Supply and providing thermal insulation of 9mm thick vidoflex with Aluminum Foil	Sqm.	768.00
	p	Supply and providing Civil Concrete Block for Mounting the Airconditioning Unit	Each	660.00
	q	Supply and laying of 30 sq.mm. incoming cable	RM	358.00
	r	Supply and providing of 10 sq.mm. copper flexible single cable	RM	82.80
	s	Supply and providing of 1.5 sq.mm. copper flexible cable	RM	18.50
	t	Supply and providing of 0.5 sq.mm. 4 core flexible signal cable	RM	15.50
	4	GENERATORS WITH STANDARD PANEL		Kirloskar / Ashok Leyland / Equivalent
	a	5 KVA	Each	192500.00
	b	7.5 KVA	Each	200900.00
	c	10 KVA	Each	227200.00
	d	15 KVA	Each	244100.00
	e	20 KVA	Each	256700.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	f	30 KVA	Each	312400.00
	g	35 KVA	Each	333600.00
	h	40 KVA	Each	389300.00
	i	45 KVA	Each	454600.00
	j	62.5 KVA	Each	522900.00
	k	82.5 KVA	Each	616700.00
	l	100 KVA	Each	686000.00
	m	125 KVA	Each	788200.00
	n	160 KVA	Each	1071000.00
	o	200 KVA	Each	1308000.00
	p	250 KVA	Each	1473000.00
	5	GENERATORS WITH AUTO MAIN FAILURE (AMF) PANEL		Kirloskar / Ashok Leyland / Equivalent
	a	62.5 KVA	Each	628200.00
	b	82.5 KVA	Each	721900.00
	c	100 KVA	Each	896500.00
	d	125 KVA	Each	998600.00
	e	160 KVA	Each	1281700.00
	f	200 KVA	Each	1518600.00
	g	250 KVA	Each	1683800.00
	6	Exhaust Pipe with Silencer	RM	2074.00
	7	PASSENGER LIFTS (G+3) SS 304 Grade with 1m/sec. speed with ARD		Johnson / Kone / OTIS / Equivalent
	A	8 Persons Passenger Lift Car Size (1300 x 1100)		
	a	Gearless Lift with Machine Room	Each	1429000.00
	b	Gearless Lift without Machine Room	Each	1496000.00
	B	10 Persons Passenger Lift Car Size (1300 x 1350)		Johnson / Kone / OTIS / Equivalent
	a	Gearless Lift with Machine Room	Each	1493000.00
	b	Gearless Lift without Machine Room	Each	1565000.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	C	13 Persons Passenger Lift Car Size (2000 x 1100)		Johnson / Kone / OTIS / Equivalent
	a	Gearless Lift with Machine Room	Each	1662000.00
	b	Gearless Lift without Machine Room	Each	1739000.00
	D	20 Persons Passenger Lift Car Size (2000 x 1500)		Johnson / Kone / OTIS / Equivalent
	a	Gearless Lift with Machine Room	Each	2066000.00
	b	Gearless Lift without Machine Room	Each	2196000.00
		Further increase of rate per floor for every additional floor Rs.1,00,000/- per floor. Comprehensive servicing and maintenance of lifts for further period of 2 years beyond free warranty period of one year from the date of commissioning of lifts will be paid at the rate of 5% of capital cost of lift.		--
	8	BED-CUM-PASSENGER LIFTS (G+3) SS 304 Grade with 1m/sec. speed with ARD		
	A	15 Persons Passenger Lift Car Size (1000 x 2400)		Kone / Equivalent
	a	Gearless Lift with Machine Room	Each	1814000.00
	b	Gearless Lift without Machine Room	Each	1929000.00
	B	20 Persons Passenger Lift Car Size (1300 x 2400)		
	a	Gearless Lift with Machine Room	Each	2167000.00
	b	Gearless Lift without Machine Room	Each	2257000.00
	C	26 Persons Passenger Lift Car Size (1600 x 2400)		
	a	Gearless Lift with Machine Room	Each	2463000.00
	b	Gearless Lift without Machine Room	Each	2655000.00
		Further increase of rate per floor for every additional floor Rs.1,00,000/- per floor. Comprehensive servicing and maintenance of lifts for further period of 2 years beyond free warranty period of one year from the date of commissioning of lifts will be paid at the rate of 5% of capital cost of lift.		--
XV		PART "O"		
	1	GI STEEL TUBULAR POLE FOR STREET LIGHT		Kumaran Pole / Orient Pole / Equivalent
	a	4 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 76.10mm OD x 3.65mm Thick x 4000mm Length	Each	6350.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	b	4 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 76.10mm OD x 3.65mm Thick x 4000mm Length	Each	7230.00
	c	6 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 76.10mm OD x 3.65mm Thick x 6000mm Length	Each	7590.00
	d	6 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 76.10mm OD x 3.65mm Thick x 6000mm Length	Each	8470.00
	e	7 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 4000mm Length, 88.90mm OD x 4.85mm Thick x 1500mm Length, 76.1mm OD x 3.25mm Thick x 1500mm Length	Each	9730.00
	f	7 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 4000mm Length, 88.90mm OD x 4.85mm Thick x 1500mm Length, 76.10mm OD x 3.25mm Thick x 1500mm Length	Each	10700.00
	g	7.50 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 4500mm Length, 88.90mm OD x 4.85mm Thick x 1500mm Length, 76.1mm OD x 3.25mm Thick x 1500mm Length	Each	10870.00
	h	7.50 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 4500mm Length, 88.90mm OD x 4.85mm Thick x 1500mm Length, 76.10mm OD x 3.25mm Thick x 1500mm Length	Each	12010.00
	i	8 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 4500mm Length, 88.90mm OD x 4.85mm Thick x 1750mm Length, 76.10mm OD x 3.25mm Thick x 1750mm Length	Each	11190.00
	j	8 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 4500mm Length, 88.90mm OD x 4.85mm Thick x 1750mm Length, 76.10mm OD x 3.25mm Thick x 1750mm Length	Each	12320.00
	k	8.50 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 5000mm Length, 88.90mm OD x 4.85mm Thick x 1750mm Length, 76.10mm OD x 3.25mm Thick x 1750mm Length	Each	11930.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	l	8.50 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 5000mm Length, 88.90mm OD x 4.85mm Thick x 1750mm Length, 76.10mm OD x 3.25mm Thick x 1750mm Length	Each	13390.00
	m	9 Metre Length Single Bracket Pole with Base Plate (300 x 300 x 6mm) 114.30mm OD x 5.40mm Thick x 5000mm Length, 88.90mm OD x 4.85mm Thick x 2000mm Length, 76.10mm OD x 3.25mm Thick x 2000mm Length	Each	11930.00
	n	9 Metre Length Double Bracket Pole with Base Plate (300 x 300 x 6mm) 114.30mm OD x 5.40mm Thick x 5000mm Length, 88.90mm OD x 4.85mm Thick x 2000mm Length, 76.10mm OD x 3.25mm Thick x 2000mm Length	Each	13390.00
	o	10 Metre Length Single Bracket Pole with Base Plate (300 x 300 x 6mm) 139.70mm OD x 4.50mm Thick x 5200mm Length, 114.30mm OD x 4.50mm Thick x 2400mm Length, 88.90mm OD x 3.25mm Thick x 2400mm Length	Each	15800.00
	p	10 Metre Length Double Bracket Pole with Base Plate (300 x 300 x 6mm) 139.70mm OD x 4.50mm Thick x 5200mm Length, 114.30mm OD x 4.50mm Thick x 2400mm Length, 88.90mm OD x 3.25mm Thick x 2400mm Length	Each	16230.00
	q	12 Metre Length Single Bracket Pole with Base Plate (300 x 300 x 6mm) 165.10mm OD x 4.50mm Thick x 5800mm Length, 139.70mm OD x 4.50mm Thick x 3100mm Length, 114.30mm OD x 3.65mm Thick x 3100mm Length	Each	18620.00
	r	10 Metre Length Double Bracket Pole with Base Plate (300 x 300 x 6mm) 165.10mm OD x 4.50mm Thick x 5800mm Length, 139.70mm OD x 4.50mm Thick x 3100mm Length, 114.30mm OD x 3.65mm Thick x 3100mm Length	Each	20640.00
	2	Octagonal Post		Kumaran Pole / Equivalent
	a	Supply, Erection of 8m Free Standing Single Arm Bracket 8 sided Octagonally continuously tapered structured pole with base plate of size 300 x 300 x 12mm as per IS-875 with following specification. Bottom Pole Dia - 130mm Top Pole Dia - 70 mm Thickness of Pole - 3 mm The pole should be hot dip galvanized confirming to BESN ISO-1461 with thickness of 65 Micron	Each	20790.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	b	Supply, Erection of 8m Free Standing Double Arm Bracket 8 sided Octagonally continuously tapered structured pole with base plate of size 300 x 300 x 12mm as per IS-875 with following specification. Bottom Pole Dia - 130mm Top Pole Dia - 70 mm Thickness of Pole - 3 mm The pole should be hot dip galvanized confirming to BESN ISO-1461 with thickness of 65 Micron	Each	21920.00
	c	Supply, Erection of 7m Free Standing Double Arm Bracket 8 sided Octagonally continuously tapered structured pole with base plate of size 250 x 250 x 12mm as per IS-875 with following specification. Bottom Pole Dia - 140mm Top Pole Dia - 70 mm Thickness of Pole - 3 mm The pole should be hot dip galvanized confirming to BESN ISO-1461 with thickness of 65 Micron	Each	20910.00
	3	LIGHTNING ROD		Jef Flash / Nimbus / Equivalent
	a	Supply of Early Streamer Emission Air Terminal (ESEAT). Model: L The ESEAT has corrosion resistant stainless chrome body made up of AISI 316 grade of height 0.50 metres capable of working in hazardous atmosphere. The Air terminal is non-radioactive and requires no special licensing. The unit is fully autonomous (no battery, no external power supply is required), collects energy from the ambient electric field. The ESEAT model has been tested in a high voltage laboratory in accordance with NFC 17 102 in order to measure the average gain in triggering. The average gain in triggering time (ΔT_s) obtained during the lab test for the offered model is 60 μs . The ESEAT works on negative as well as positively polarized discharges. ESEAT has been tested for such discharges in Central Power Research Institute (CPRI). A dedicated tester is available to test the healthiness of the ESEAT on request (Page No. 37, Point No. 3 of Clause 8.6 of the Revised NFC 17-102 version 2011). ESEAT Model : L - Radius of protection : 86 Metres Level of protection considered for the Project-II level	Each	73120.00
	b	Supply of Early Streamer Emission Air Terminal (ESEAT). Model: S The ESEAT has corrosion resistant stainless chrome body made up of AISI 316 grade of height 0.50 metres capable of working in hazardous atmosphere. The Air terminal is non-radioactive and requires no special licensing. The unit is fully autonomous (no battery, no external power supply is required), collects energy from the ambient electric field. The ESEAT model has been tested in a high voltage laboratory in accordance with NFC 17 102 in order to measure the average gain in triggering. The average gain in triggering time (ΔT_s) obtained during the lab test for the offered model is 60 μs . The ESEAT works on negative as well as positively polarized discharges. ESEAT has been tested for such discharges in Central Power Research Institute (CPRI). A dedicated tester is available to test the healthiness of the ESEAT on request (Page No. 37, Point No. 3 of Clause 8.6 of the Revised NFC 17-102 version 2011). ESEAT Model : S - Radius of protection : 46 Metres Level of protection considered for the Project-II level	Each	64940.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	c	MOUNTING STRUCTURE		
		Supply of Standard / Special Mounting Structure of height 4.5 mts. pipe, and 300 x 300 x 8mm MS plate, 3 mts. 48mm OD class C GI outer pipe, 1.8 mtr, 38mm OD inner pipe, for roof mounting on concrete base and with FRP adapter	Each	19490.00
	d	DOWN CONDUCTOR		
		Supply and run of 25mm x 6mm GI Flat Down Conductor with necessary clamps / supports on wall / floor / ground for earth connection	Mtr	113.00
	e	TEST LINK		
		Supply of Test Link Box for each Down conductor in order to disconnect the earth termination system to enable measurement of resistance	Each	4796.00
	f	EARTH ELECTRODE		
		Supply and installation maintenance free GI Earthing System comprising of 50mm dia and 2 mtr. long earth electrode of low carbon steel rod with 100 micron bonding and 25 kgs. of carbon based environment friendly backfill compound and suitable clamp	Each	8850.00
	g	SURGE PROTECTION		
		Supply and installation Cabinet Type Class 1 and 2 Combined Model SPD to arrest surges and overvoltages in the power line due to lightning switching action etc. they must be installed in the incoming MCC panel / DB of the respective building in parallel to the power circuit. Model: PSV4-12.5/400TT (3 phase power network)	Each	18600.00
XVI		PART "P"		
		Conference type Public Address System, Projector and Motorized Screen		BOSCH / Equivalent
	1	Chairman Unit	Each	14946.00
	2	Delegate Unit	Each	13250.00
	3	Conference Controller	Set	33145.00
	4	PA Mixer Amplifier 120W	Set	19957.00
	5	PA Mixer Amplifier 240W	Set	25607.00
	6	PA Booster Amplifier 480W	Set	44220.00
	7	Wall Speaker 15W	Each	8594.00
	8	Wall Speaker 30W	Each	12493.00
	9	Ceiling Speaker 15W	Each	2175.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	10	Ceiling Speaker 20W	Each	3361.00
				AKG / Equivalent
	11	Cordless Mic UHF	Each	20000.00
				Orbit / Equivalent
	12	8 Pin Conference Mic Socket with Modular Box and Front Plate	Each	327.70
	13	2 Core 1.5 sq.mm Shielded Copper Speaker Wire	RM	40.50
	14	8 Core 1.5 sq.mm PVC Copper Conference Ccable	RM	155.50
				SONY / Equivalent
	15	3200 Ansi Lumens Projector, XGA (1024X 768) Resolution, Contrast Ratio: 4000:1	Each	38800.00
	16	3600 Ansi Lumens Projector, XGA (1024X 768) Resolution, Contrast Ratio: 20000:1	Each	55190.00
	17	3300 Ansi Lumens Short Throw Projector, WXGA (1280 X 800) Resolution, Contrast Ratio: 3000:1	Each	97240.00
				Liberty / Equivalent
	18	6' x 4' Motorized Screen	Each	11970.00
	19	8' x 6' Motorized Screen	Each	16060.00
	20	10' x 8' Motorized Screen	Each	19290.00
	21	3 Feet Ceiling Mount Kit	Each	4252.00
	22	20 Metre HDMI Cable	Set	4210.00
				Orbit / Equivalent
	23	3 Core 1.5 sq.mm. PVC Power Cable for Projector	RM	57.30
	24	Unarmoured 0.5mm Telephone Cable		
	a	2 Pair	RM	9.05
	b	4 Pair	RM	16.15
	c	10 Pair	RM	38.30
	d	20 Pair	RM	70.70
	e	50 Pair	RM	159.50
	25	Armoured 0.5mm Jellyfilled Telephone Cable		
	a	10 Pair	RM	148.40
	b	20 Pair	RM	218.10

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	c	50 Pair	RM	424.00
	d	100 Pair	RM	735.20
	e	200 Pair	RM	1369.00
	26	Unarmoured Co-Axial Cable for TV		
	a	RG-06	RM	23.20
	b	RG-11	RM	52.50
	27	Armoured Co-Axial Cable for TV		
	a	RG-06	RM	88.80
	b	RG-11	RM	126.20
	28	Unarmoured LAN & CCTV Cable		
	a	CAT-6	RM	29.20
	29	Armoured LAN & CCTV Cable		
	a	CAT-6	RM	104.00
	30	Unarmoured Speaker Cable		
	a	2 Core - 1.0 sq.mm	RM	28.20
	b	2 Core - 1.5 sq.mm	RM	40.40
	31	Armoured Speaker cable		
	a	2 Core - 1.5 sq.mm	RM	83.80
	b	2 Core - 2.5 sq.mm	RM	104.00
	32	OFC Cable		
	a	6 Core Indoor	RM	53.50
	b	6 Core Outdoor	RM	58.50
	c	12 Core Indoor	RM	68.60
	33	PoE Switches for CCTV IP Camera		D-Link / Equivalent
	a	4 Port	Each	6098.00
	b	8 Port	Each	8430.00
	c	24 Port	Each	19080.00
	34	Network Video Recorder for CCTV		
	a	4 Channel - 1 SATA	Each	5514.00

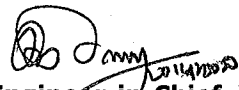
Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	b	8 Channel - 1 SATA (1 No. Hard Disk)	Each	6363.00
	c	16 Channel - 2 SATA (2 Nos. Hard Disk)	Each	11660.00
	d	32 Channel - 2 SATA (2 Nos. Hard Disk)	Each	21200.00
	35	LAN NETWORK SWITCHES		
	I	Un-Managed 10 / 100 / 1000		
	a	8 Port	Each	1962.00
	b	16 Port	Each	5143.00
	c	24 Port	Each	6310.00
	II	Semi-Managed 10 / 100 / 1000		
	a	24 Port	Each	11870.00
	III	Fully Managed 10 / 100 / 1000 Layer-2 with 1G Uplink		
	a	8 Port	Each	16960.00
	b	24 Port	Each	34990.00
	c	24 Port with Fibre Port	Each	62560.00
	d	48 Port	Each	42400.00
	IV	Fully Managed 10 / 100 / 1000 Layer-2 with 10G Uplink		
	a	24 Port	Each	38170.00
	b	28 Port	Each	49040.00
	V	Fully Managed 10 / 100 / 1000 Layer-3 with 10G Uplink		
	a	24 Port	Each	111350.00
	b	24 Port with Fibre Port	Each	127200.00
	c	48 Port	Each	206700.00
	36	Media Converter for Optical Fibre Cable		
	a	Single Mode	Each	5302.00
	b	Multi Mode	Each	4772.00
	37	I/O Socket		
	a	RJ-45	Each	159.50
	b	RJ-11	Each	63.60


Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	c	CAT 6 PVC Module Box	Each	63.60
	d	Face Plate Single Socket RJ-45	Each	95.90
	e	Face Plate Dual Socket RJ-45	Each	106.00
	f	Face Plate Quad Socket RJ-45	Each	117.00
	38	Hard Disk for NVR		Western / Digital / Equivalent
	a	2 TB	Each	5832.00
	b	4 TB	Each	12355.00
	c	6 TB	Each	16755.00
	d	8 TB	Each	24390.00
	39	Rack with Accessories		D-Link / Equivalent
	a	2U Rack	Each	1908.00
	b	4U Rack	Each	2650.00
	c	6U Rack	Each	3180.00
	d	9U Rack	Each	4240.00
	e	12U Rack	Each	6360.00
	f	36U Rack	Each	21200.00
	g	42U Rack	Each	37100.00
	h	Fan extra for the above rack	Each	530.00
	40	Patch Cord		D-Link / Equivalent
	a	1 Metre Length	Each	138.00
	b	2 Metre Length	Each	185.00
	c	3 Metre Length	Each	223.00
	d	24 Port Patch Panel – Unloaded	Each	2120.00
	e	24 Port Patch Panel – Fully Loaded	Each	3977.00
XVII		PART "Q"		
		HIRE CHARGES FOR TEMPORARY ARRANGEMENTS		
	1	Metal Hallide lamp		
	a	1 Day	Each	265.00
	b	2 Days	Each	334.00
	c	3 Days	Each	386.00

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)	
	d	4 Days	Each	435.00	
	e	5 Days	Each	487.00	
	f	6 Days	Each	530.00	
	g	7 Days	Each	583.00	
	2	Generator		Starting & End Day	Inter-mediate Days
	a	62.5 KVA	Each	1696.00	1357.00
	b	125 KVA	Each	3499.00	2799.00
	c	250 KVA	Each	6999.00	5599.00
	d	320 KVA	Each	8377.00	6702.00
	e	500 KVA	Each	12726.00	10180.00
	3	Cable			
	a	2 of 7/20 sq.mm	RM	2.02	
	b	4 of 7/20 sq.mm	RM	4.04	
	c	4 of 19/16 sq.mm	RM	11.10	
	d	4 of 7/16 sq.mm	RM	6.05	
	e	4 of 120 sq.mm	RM	53.50	
	f	3.5 x 180 sq.mm LTUG	RM	21.20	
	g	4 of 185 sq.mm	RM	74.70	
	h	3 Core Flexible Wire	RM	3.03	
	i	4 Core Flexible Wire	RM	3.03	
	j	4 Core 6 sq.mm Copper Cable	RM	6.05	
	k	4 x 10 sq.mm Flexible Cable	RM	6.05	
	l	2 of 3/20 sq.mm	RM	2.02	
	m	3 1/2 x 50 sq.mm LTUG	RM	11.10	
	n	Co-Axial Cable	RM	1.01	
	4	Serial Set			
	a	2 Days	RM	17.15	
	b	3 Days	RM	25.25	
	5	Fly Catcher 2 Days	Each	169.60	
	6	Air Cooler with Stand 2 Days	Each	286.80	
	7	Air Circulator 2 Days	Each	63.60	

Item No.		Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
	8	Pedastal Fan	Each	42.40
	9	LED Nose Light	Each	18.15
	10	Earth Pipe	RM	32.30
	11	100A Change Over Switch	Each	159.50
	12	250A Change Over Switch	Each	169.60
	13	400A Change Over Switch	Each	212.00
	14	250A Change Over Switch with Panel Board	Each	795.00
	15	100A Panel Board with 100A TPN Switch & 5 Nos. 30A TPN switch with Bus Bar	Each	822.00
	16	250A Panel Board with 250A TPN Switch & 7 Nos. 63A DPMCB switch	Each	1060.00
	17	100A Panel Board incoming 100A TPN Switch with various range of TP/DP/SP MCB with suitable angle iron frame work	Each	784.00
	18	200A Panel Board	Each	848.00
	19	400A Panel Board	Each	1590.00
	20	4'40W Patty Tube Light with Fitting	Each	25.20
	21	15A / 5A Plug Board	Each	25.20
	22	Blank Post	Each	1962.00
	23	6mtr GI Post for Metal Halide Fitting	Each	95.90
	24	1.5 TR Split AC	Each	5302.00
	25	2 TR Split AC	Each	7105.00
	26	5 TR Split AC	Each	25025.00
	27	7.5 TR Ductable AC	Each	36585.00
	28	5 TR Slim Pack	Each	24815.00
	29	Air Curtain	Each	530.00
	30	High Power Audio System	Each	47720.00
	31	PA System	Each	7423.00
	32	Amplifier, Mic, XLR	Each	5302.00
	33	2 x 15 HF 3 Way Speaker	Each	1696.00
	34	1 x 15 HF Speaker	Each	1060.00
	35	4 x 12 Loud Speaker	Each	636.00
	36	Car Calling System arrangement	Each	3181.00

Item No.	Details	Per	Basic Rate approved for the year 2020-21 (w.e.f. 20.04.2020)
37	Cordless Mic	Each	530.00
38	Wired Mic	Each	530.00
39	32 Channel Mixer Amplifier	Each	636.00
40	Laptop to play CD Songs	Each	2120.00
41	5 KVA with 1 Hour back-up	Each	7953.00
42	Power Amplifier	Each	212.00
43	Sony Video Camera	Each	5302.00
44	42" Plasma Screen	Each	2651.00
45	Mixer Board, Computer, UPS, etc	Each	8480.00
46	200W LED Flood Light Fitting	Each	212.00
47	5TR Slim Package AC	Each	26830.00
Note:	The Basic Rate adopted under this Head, "Annexure-VII - Rates of Electrical Items of Works" is exclusive of all taxes and GST.		


**Engineer-in-Chief, WRD &
 Chief Engineer (General), PWD,
 Chennai-5 (Member)**


 20/4/20

NEW TECHNIQUES

Sl. No.	Description	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
	I. RATES OF MATERIALS		
	Geogrids		
1	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 15 kN/m in the longitudinal and transverse direction	sqm.	100.00
2	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 20 kN/m in the longitudinal and transverse direction	sqm.	115.00
3	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 30 kN/m in the longitudinal and transverse direction	sqm.	185.00
4	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 40 kN/m in the longitudinal and transverse direction	sqm.	275.00
5	Synthetic Geogrid having Ultimate Tensile Strength 100 kN /m	sqm.	220.00
6	Synthetic Geogrid having Ultimate Tensile Strength 150 kN /m	sqm.	230.00
7	Synthetic Geogrid having Ultimate Tensile Strength 200 kN /m	sqm.	320.00
8	Synthetic Geogrid having Ultimate Tensile Strength 250 kN /m	sqm.	355.00
9	Synthetic Geogrid having Ultimate Tensile Strength 300 kN /m	sqm.	365.00
10	Synthetic Geogrid having Ultimate Tensile Strength 350 kN /m	sqm.	370.00
11	Synthetic Geogrid having Ultimate Tensile Strength 400 kN /m	sqm.	475.00
12	Synthetic Geogrid having Ultimate Tensile Strength 500 kN /m	sqm.	535.00
13	Synthetic Geogrid having Ultimate Tensile Strength 600 kN /m	sqm.	550.00
14	Synthetic Geogrid having Ultimate Tensile Strength 700 kN /m	sqm.	685.00
15	Synthetic Geogrid having Ultimate Tensile Strength 800 kN /m	sqm.	750.00
16	Synthetic Geogrid having Ultimate Tensile Strength 900 kN /m	sqm.	900.00
17	Synthetic Geogrid having Ultimate Tensile Strength 1000 kN /m	sqm.	1025.00
18	Synthetic Geogrid having Ultimate Tensile Strength 1100 kN /m	sqm.	1000.00
19	Synthetic Geogrid having Ultimate Tensile Strength 1200 kN /m	sqm.	1088.00

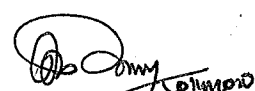
Sl. No.	Description	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
	Drainage Composite		
20	Geosynthetic Drainage with Two Filtering Non-woven Geotextiles having a "W" configuration as longitudinal parallel channels. Minimum thickness to be 7.2mm, with two filtering UV stabilized polypropylene nonwoven Geotextiles of minimum thickness of 0.75mm having pores of 150 micron and tensile strength of 8.0 kN/m and having plane flow capacity of 2.1 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure, tensile strength of 18 kN/m with mass per unit area of 740 gsm.	sqm.	530.00
21	Geosynthetic Drainage Composite having thermobonding a draining core - HDPE geonet comprises of two sets of parallel overlaid ribs integrally connected to have a rhomboidal shape with a polyethylene film and a nonwoven Geotextiles having mass per unit area 130 g/m ² and tensile strength of 8.0 kN/m having in plane flow capacity of 0.7 L / (ms) at hydraulic gradient of 1.0 & 20 kPa pressure and tensile strength of 13.5 kN/m with mass per unit area of 830 gsm,.	sqm.	630.00
	II. RATES OF WORKS		
	A. Geosynthetics - Geotextiles		
1	Providing and laying Woven Geotextiles of Type-I on the prepared subgrade as the separator cum reinforcement with necessary overlap as per drawing and as per MORTH Specification 702	sqm.	148.00
2	Providing and laying Woven Geotextiles of Type-II on the prepared subgrade as the separator cum reinforcement with necessary overlap as per drawing and as per MORTH Specification 702	sqm.	136.00
3	Providing and laying Woven Geotextiles of Type-III on the prepared subgrade as the separator cum reinforcement with necessary overlap as per drawing and as per MORTH Specification 702	sqm.	123.00
4	Providing and laying needle punched and mechanically bonded Non-woven Geotextiles of Type-I indigenously manufactured from high quality fibres on the prepared subgrade for separation as per MORTH Specification 702	sqm.	140.00
5	Providing and laying needle punched and mechanically bonded Non-woven Geotextiles of Type-II indigenously manufactured from high quality fibres on the prepared subgrade for separation as per MORTH Specification 702	sqm.	125.00
6	Providing and laying needle punched and mechanically bonded Non-woven Geotextiles of Type-III indigenously manufactured from high quality fibres on the prepared subgrade for separation	sqm.	110.00

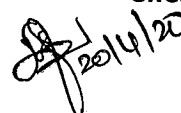
Sl. No.	Description	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
	B. Geosynthetics - Geomembranes		
7	Supplying and laying of HDPE Geomembrane 750 micron thickness of smooth surfaces on both sides / only one face textured. The width of geomembrane roll shall not be less than 4.5m at easily accessible location including top and bottom with all leads and lifts manpower and machinery, materials labour etc, complete and as directed by Engineer-in-Charge as per MORTH Specification 701	sqm.	135.00
8	Supplying and laying of HDPE Geomembrane 1000 micron thickness of smooth surfaces on both sides / only one face textured. The width of geomembrane roll shall not be less than 4.5m at easily accessible location including top and bottom with all leads and lifts, manpower materials and machinery labour etc, complete and as directed by Engineer-in-Charge as per MORTH Specification 701	sqm.	163.00
9	Supplying and laying of HDPE Geomembrane 1500 micron thickness of smooth surfaces on both sides / only one face textured. The width of geomembrane roll shall not be less than 4.5m at easily accessible location including top and bottom with all leads and lifts, manpower materials and machinery labour etc, complete and as directed by Engineer-in-Charge as per MORTH Specification 701	sqm.	189.00
	C. Geogrids		
10	Supplying and laying high strength flexible Geogrids (HSFG) as soil reinforcement / basal reinforcement as per MORTH 3100 and IRC 113, made of high tenacity polyester core with polyethylene coating with Minimum Long Term Design Strength (LTDS) of more than 50% of Ultimate Tensile Strength at 30 degree celsius corresponding to 12% strain	sqm.	
a	Ultimate Tensile Strength - 100 kN/m	sqm.	347.95
b	Ultimate Tensile Strength - 150 kN/m	sqm.	362.70
c	Ultimate Tensile Strength - 200 kN/m	sqm.	495.15
d	Ultimate Tensile Strength - 250 kN/m	sqm.	546.65
e	Ultimate Tensile Strength - 300 kN/m	sqm.	561.35
f	Ultimate Tensile Strength - 350 kN/m	sqm.	568.70
g	Ultimate Tensile Strength - 400 kN/m	sqm.	723.25
h	Ultimate Tensile Strength - 500 kN/m	sqm.	811.55
i	Ultimate Tensile Strength - 600 kN/m	sqm.	833.65
j	Ultimate Tensile Strength - 700 kN/m	sqm.	1032.30
k	Ultimate Tensile Strength - 800 kN/m	sqm.	1128.00

Sl. No.	Description	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
I	Ultimate Tensile Strength - 900 kN/m	sqm.	1348.75
m	Ultimate Tensile Strength - 1000 kN/m	sqm.	1532.70
n	Ultimate Tensile Strength - 1100 kN/m	sqm.	1495.70
o	Ultimate Tensile Strength - 1200 kN/m	sqm.	1625.40
11	Supplying and laying of Bi-Axial Extruded High Modulus Polypropylene Geogrids conforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum Tensile Strength 15 kN/m in the longitudinal and transverse direction, with 5kN/m and 7kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm x 38mm mesh opening	sqm.	171.35
12	Supplying and laying of Bi-Axial Extruded High Modulus Polypropylene Geogrids conforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum Tensile Strength 20 kN/m in the longitudinal and transverse direction, with 7 kN/m and 14 kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm x 38mm mesh opening	sqm.	193.45
13	Supplying and laying of Bi-Axial Extruded High Modulus Polypropylene Geogrids conforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum Tensile Strength 30 kN/m in the longitudinal and transverse direction, with 10.5 kN/m and 21kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm x 38mm mesh opening	sqm.	296.45
14	Supplying and laying of Bi-Axial Extruded High Modulus Polypropylene Geogrids conforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum Tensile Strength 40 kN/m in the longitudinal and transverse direction, with 14 kN/m and 28 kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm d 38mm mesh opening	sqm.	428.90
15	Providing and laying Fibreglass Geogrids of Tensile Strength - 50 kN/m manufactured from high quality fibre glass strands and coated with a polymer modified bitumen as reinforcement to asphalt overlay flexible pavements and asphalt over distressed grid PCC as per MORTH Specification 708	sqm.	150.00
16	Providing and laying fibreglass geogrid of Tensile Strength - 100 kN/m manufactured from high quality fibre glass strands and coated with a polymer modified bitumen as reinforcement to asphalt overlay flexible pavements and asphalt over distressed grid PCC as per MORTH Specification 708	sqm.	243.00

Sl. No.	Description	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
	D. Geosynthetic Clay Liners (GCL)		
17	Supplying and laying of 6.5mm thick GCL consisting of a layer of bentonite encapsulated between two nonwoven polypropylene needle punched Geotextiles with 11 kN/m tensile strength in longitudinal direction and 4200 g/me bentonite content. The width of GCL roll shall not be less than 4.55m at easily accessible location including top and bottom with all leads and lifts manpower and machinery materials labour etc complete and as directed by Engineer-in-Charge as per MORTH Specification 700	sqm.	427.00
18	Supplying and laying of 5mm thick GCL consisting of a layer of bentonite encapsulated between two nonwoven polypropylene needle punched Geotextiles with 11.7 kN/m tensile strength in longitudinal direction and 3000 g/me bentonite content. The width of GCL roll shall not be less than 5m at easily accessible location including top and bottom with all leads and lifts manpower and machinery materials labour etc complete and as directed by Engineer-in-Charge as per MORTH Specification 700	sqm.	412.00
	E. Drainage Composite		
19	Supplying and laying of drainage composite for use behind walls, between two different fills, alongside-drains of road, below concrete lining of canals etc. Geocomposite for planar drainage, realized by thermo bonding a draining core in extruded monofilaments with two filtering nonwoven Geotextiles that may also be working as separation or protecting layers. The draining three dimensional core will have a "W" configuration as longitudinal parallel channels. Minimum thickness to be 7.2mm, with two filtering UV stabilized polypropylene nonwoven Geotextiles of minimum thickness of 0.75mm characteristic opening size (O90) of 110 micron and tensile strength of 8.0 kN/m that will be working as separation or protecting layer, Geocomposite having in plane flow capacity of 2.1 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure and tensile strength of 18 kN/m with mass per unit area of 740 gsm, supplied in the form of roll for easy transportation to site of work as per detailed specification all complete as per directions of Engineer-in-Charge	sqm.	804.20
20	Supplying and laying of drainage composite for use behind walls, between two different fills, alongside drains of road, below concrete lining of canals etc. having thermobonding a draining core - HDPE geonet comprises of two sets of parallel overlaid ribs integrally connected to have a rhomboidal shape with a polyethylene film and a nonwoven Geotextiles having mass per unit area 130 gsm and tensile strength of 8.0 kN/m that will be working as separation or protecting layer, Geocomposite having in plane flow capacity of 0.7 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure and tensile strength of 13.5 kN/m , with mass per unit area of 830 gsm, at easily accessible location including top and bottom, with all leads and lifts, materials, manpower and machinery, materials, labour etc., complete and as directed by Engineer-in-Charge	sqm.	951.35

Sl. No.	Description	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
VI. Gabion			
21	Providing and making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire Mesh Gabion Boxes as per IS 16014:2012, MORTH Clause 2500, of required size, Mesh Type 10 x 12 (D=100mm with tolerance of $\pm 2\%$) Zinc Coated, Mesh Wire diameter 3.0 mm, mechanically edged / selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2mm, supplied @3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per direction of Engineer-in-Charge	cum.	3363.00
22	Providing and making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire Mesh Gabion Boxes as per IS 16014:2012, MORTH Clause 2500, of required size, Mesh type 10 x 12 (D=100mm with tolerance of $\pm 2\%$) Zinc + PVC Coated , Mesh wire diameter 2.7 / 3.7mm, mechanically edged / selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2 / 3.2mm (ID/OD), supplied @3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per directions of Engineer-in-Charge	cum.	3584.00
23	Providing and making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire Mesh Gabion Boxes as per IS 16014:2018, SP 116:2018 of required size, Mesh type 10 x 12 (D=100mm with tolerance of $\pm 2\%$), Zinc + 10% Aluminium Alloy + PVC Coated , Mesh Wire diameter 2.7 / 3.7mm (ID/OD), mechanically edged / selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2 / 3.2mm (ID/OD), supplied @3% by weight of Gabion boxes, filled with boulders with least dimension of 200mm, as per drawing, all complete as per directions of Engineer-in-Charge	cum.	4099.00
NOTE:			
1	The Basic Rate adopted under this Head, "Annexure-VIII - New Techniques" is exclusive of all taxes and GST.		


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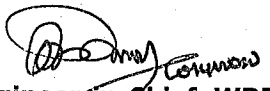
**RATES OF LABOUR, RATES OF MATERIALS AND RATES OF WORKS
EXCLUSIVELY FOR TEMPLE WORKS**


Sl. No.	Description	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
I	RATES OF LABOUR		
A	Ornamental Brick Work		
1	Sthapathy-I Class (Marking)	Day	1288.00
2	Silpi-I Class	Day	1085.00
3	Silpi-II Class	Day	991.00
4	Assistant Silpi	Day	708.00
B	Panchavarnam Work		
5	Artist Painter-I Class	Day	965.00
6	Artist Painter-II Class	Day	814.00
7	Assistant Painter	Day	509.00
C	Sudhai Work		
8	Silpi for Vighram	Day	1288.00
9	Silpi for Ornamental Varagam	Day	1085.00
D	Wood Work		
10	Vighraha Sthapathy	Day	1288.00
11	Sthapathy-I Class	Day	1288.00
12	Sthapathy-II Class	Day	1094.00
13	Silpi-I Class	Day	1085.00
14	Silpi-II Class	Day	991.00
15	Sthapathy Assistant	Day	991.00
E	Ornamental Stone Work		
16	Sthapathy-I Class (Marking)	Day	1288.00
17	Sthapathy-II Class (Supervisor Sthapathy)	Day	1152.00
18	Silpi-I Class	Day	1085.00
19	Silpi-II Class	Day	991.00
20	Smith-I Class	Day	1085.00
21	Smith-II Class	Day	991.00
22	Assistant Silpi	Day	708.00

Sl. No.	Description	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
II	RATES OF MATERIALS		
1	Supply of high quality Burma Teakwood meant for the purpose of making the following items		
a	Temple Pattern Ornamental Doors with high quality Burma Teakwood with 2" minimum to 7" maximum thick ornamental frames, 2" thick to 5" thick Kamala (Flower Planks), Creeper, Birds, Animal Figures, Sculptures, etc. Backside 1" thick to 3" plank including necessary carving, shaping, wastage, etc., as per approved plan and design.	cum.	309800.00
b	Temple Chariot Ornamental Works consisting of Architectural Embellishments like, Peetas, Padmas, Pillars, Pilasters, Bodhikas, Kapotams, Koodu, Sikaram and other Ornamental Cornice works and also necessary Creepers, Kamalams, Animal, Bird Figures and Sculptures.	cum.	324800.00
c	Kodimaram (Dwajasthambam) Stem 9" to 18" dia upto 30 feet height.	cum.	339800.00
2	Supply of Teakwood for making the following items		
a	Temple Pattern Ornamental Doors with high quality teakwood (country) with 2" minimum to 7" maximum thick Ornamental Frames, 2" thick to 5" thick Kamala (Flower Planks), Creeper, Birds, Animal Figures, Sculptures, etc. Backside 1" thick to 3" plank including necessary carving, shaping, wastage, etc., as per approved plan and design.	cum.	199000.00
b	Temple Chariot Beams, Temple Wooden Uttarams with minimum 9" thick to 18".	cum.	213021.00
c	Kodimaram (Dwajasthambam) Stem 9" to 18" dia upto 30 feet height.	cum.	213021.00
3	Supply of Country Wood for making the following items using Vengai Wood		
a	Temple Pattern Ornamental Doors with high quality Country Wood with 2" minimum to 7" maximum thick Ornamental Frames, 2" thick to 5" thick Kamala (Flower Planks), Creeper, Birds, Animal Figures, Sculptures, etc. Backside 1" thick to 3" plank including necessary carving, shaping, wastage, etc., as per approved plan and design.	cum.	120700.00
b	Kodimaram / Dwajasthambam stem 9" to 18" dia upto 30 feet height.	cum.	135700.00
c	Temple Chariot Beams, Temple Wooden Uttarams with minimum 9" thick.	cum.	150700.00
4	Supply of Country Wood for making the following items using Illuppai Wood.		
a	Temple Chariot Beams, Temple Wooden Uttarams with minimum 9" to 18" thick.	cum.	95270.00

Sl. No.	Description	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
5	Supply of Country Wood for making the following items using Atthi Wood. Temple God and Goddess Vahanams of required shape and size with ornamental features.		
a	Scantling upto 40cm dia	cum.	31500.00
b	Scantling upto 40cm dia	cum.	45348.00
6	Supply of Country Wood for Temple wood work plank 9" to 15" width and frames upto 6" thick.	cum.	45348.00
7	Supply of Country Wood for making the following items using Mavili Wood upto 40cm dia.		
a	Temple God and Goddess Vahanams of required shape and size with ornamental features.	cum.	45348.00
8	Supply of cut stone for carrying out Garpagraham, Arthamandapam, Maha Mandapam, Thirumathil and other Temple Structures upto 10 feet length		
a	Thirumathil (Compound Wall)	cum.	12400.00
b	Pillar (Column)	cum.	14000.00
c	Uthiram (Beam)	cum.	14000.00
d	Pavukkal (Ceiling Stone)	cum.	14000.00
e	Flooring	cum.	12400.00
f	Nilaikal (Door Frame)	cum.	14000.00
9	Supply of cut stone for carrying out Garpagraham, Arthamandapam, Maha Mandapam, Thirumathil and other Temple Structures above 10 Feet length upto 14 feet length.		
a	Pillar (Column)	cum.	16800.00
b	Uthiram (Beam)	cum.	16800.00
c	Pavukkal (Ceiling Stone)	cum.	16800.00
d	Nilaikal (Door Frame)	cum.	16800.00
III	RATES OF WORKS		
1	Scaffolding charges for Vimanams and Gopurams with casurina posts coconut or palm trees wherever necessary for main, form work and providing with net lawn / PVC mesh coverings, providing ladder arrangements, country wood plank for working, inspection etc. complete, hire charges only for erection, maintenance and removing the same on completion of the work.		
a	Vimanam / Gopuram upto 15' - 0' height	sqm.	202.00
b	Vimanam / Gopuram upto 25' - 0' height	sqm.	271.00

Sl. No.	Description	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
c	Gopurams upto 50' - 0' height	sqm.	346.00
d	Gopurams upto 75' - 0' height	sqm.	433.00
e	Gopurams upto 100' - 0' height	sqm.	519.00
f	Gopurams upto 150' - 0' height	sqm.	634.00
2	Labour Charges for Old Stone Removing: Chitravanam, Padma Jagati, Adhistanam, Kandam, Pattiyal, Jagati, Kumudagam, Aswapadam, Sthamaba, Sthambam, Kalasam, Thadi, Kudam, Palagai, Veerakandam, Bodhiyal, Uthiram, Kambu, Eludham, Kabothagam, Viyalam, Koodu, Ull Vari, Pavukkal, Thun, Flooring, Nilaikal, Bodhiyal Thani, Uthiram.	sqm.	1237.00
3	Labour Charges for Old Stone Removing: Thanithun, Uthiram, Bodhiyal.	cum.	4059.00
4	Labour Charges for Old Stone Fixing: Chitravanam, Padma Jagati, Adhistanam, Kandam, Pattiyal, Jagati, Kumudagam.	sqm.	1857.00
5	Labour Charges for Old Stone Fixing: Aswapadam, Sthamaba, Sthambam, Kalasam, Thadi, Kudam, Palagai, Veerakandam, Bodhiyal, Uthiram, Kambu, Eludham, Kabothagam, Viyalam, Koodu, Ull Vari, Pavukkal, Thun, Flooring, Nilaikal, Bodhiyal Thani, Uthiram.	sqm.	2475.00
NOTE:			
1	The Basic Rate adopted under this Head, "Annexure-IX – Rates of Labour, Rates of Materials and Rates of Works - Exclusively for Temple Works" is exclusive of all taxes and GST.		



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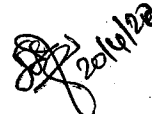
 20/4/20

ADDITIONAL NEW ITEMS FOR HIGHWAYS DEPARTMENT

Sl. No.	Description of Item	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
1	Supplying and installation of STRIP SEAL EXPANSION JOINT system confirming to specifications for road and bridge works in the 40mm wide expansion gap provided in between decks over piers and in between deck and dirt wall over abutment with fatigue tested structural steel section at the nosing and anchorage assembly, including labour, equipment and incidental charges for fixing the joints complete in all respects, as per section 2600 of MORT & H specification (V Revision)	RM	12154.00
2	Supplying and fixing 300mm wide PVC EXPANSION JOINT in the 20mm expansion gap provided in between decks over piers and in between deck and dirt wall over abutment as shown in the drawing including cost and conveyance of expansion joints including shalimar pad and joint sealant etc., complete	RM	566.00
3	Supplying and fixing GI DRAINAGE SPOUTS 100mm dia as per GOI drawing SD/205 with grating arrangements at top as shown in the drawing and 100mm dia drainage spout projecting atleast 300mm beyond the bottom of deck slab as shown in the drawing, including cost and conveyance of Galvanised iron pipes and flats and fixing them in position, etc., complete as per cl 2705 of MORT&H specification. (V Revision)	Each	2163.00
4	Supplying and fixing KRAFT PAPER for full width of seating of deck slab and including cost and conveyance to worksite, labour for fixing the same in correct position and all other incidental charges etc., complete.	sqm.	100.00
5	Supplying and Fixing of ELASTOMERIC BEARING as shown in the drawing including cost and conveyance to work site, labour for fixing the bearing in position and all other incidental charges etc., complete as per section 2000 of MORT & H specification. (V Revision)	cu.cm.	1.54
6	Supply of NP3 Class RCC Pipe confirming to IS 458/2003 including cost of pipe as a finished work including all other incidental charges, testing charges including loading, unloading, transport and delivery in good condition at work site etc., complete, as directed by the Departmental Officers, as per standard specifications.		
a	1200mm dia	RM	5400.00
b	1000mm dia	RM	3700.00

Sl. No.	Description of Item	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
c	900mm dia	RM	3300.00
7	Hoisting and fixing of NP3 Class RCC Pipe and Collars in proper gradient including all labour charges and all other incidental charges etc., complete, as directed by the Departmental Officers, as per standard specifications.		
a	1200mm dia	RM	252.00
b	1000mm dia	RM	238.00
c	900mm dia	RM	206.00
NOTE:			
1	The Basic Rate adopted under this Head, "Annexure-X - Additional New Items for Highways Department" is exclusive of all taxes and GST.		


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BASIC RATES OF HIRE CHARGES FOR TOOLS AND PLANTS

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
	HIRE CHARGES		
1	Power Roller / Road Roller	Each	880.00
2	Tipper 10 Tonnes	Each	1167.00
3	Loader	Each	1297.00
4	Paver Finisher	Each	2625.00
5	Vibrator Roller 8-10 Tonne	Each	5832.00
6	Mini Hot Mix Plant 6 / 10	Each	1806.00
7	Water Sprinkler	Each	1235.00
8	Wet Mix Plant 75 Ton Capacity	Each	9614.00
9	Electrical Generating Set 125 KVA	Each	5525.00
10	Water Tank 6 KL Capacity (GSB)	Each	2139.00
11	Motor Grader 110 HP	Each	14422.00
12	Tractor - Rotovator	Each	3020.00
13	Water Tanker (WMM)	Each	918.00
14	Base Mix Plant (Pug Mill)	Each	7176.00
15	Central Hot Mix Plant	Each	10361.00
16	Bitumen Boiler	Each	221.00
17	Tractor with Dozer	Each	4800.00
18	JCB	Each	5600.00
19	Dewatering Pump with Engine	Each	1878.00
20	Ajax Self Loading Concrete Mixer	Each	8000.00
NOTE:			
1	The Basic Rate adopted under this Head, "Annexure-XI - Basic Rates of Hire Charges for Tools and Plants" is exclusive of all taxes and GST.		
2	The Basic Rate adopted under this Head, "Annexure-XI - Basic Rates of Hire Charges for Tools and Plants" is calculated for per day of 8 hours basis.		

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ANNEXURE-XII

BASIC RATES OF GATE / HOIST AND ALLIED WORKS FOR IRRIGATION PROJECTS

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
I	GATES AND HOISTS FOR DAM		
1	<p>Design, fabrication, supply, erection and commissioning of embedded parts consisting of sill beam, wall plates, seal seats, anchors, anchor girders, yoke girders, tie flats, trunnion supports, rope and pulley supports etc., with all accessories for spillway radial gates including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of 1 set embedded parts in tonnes $= 0.0177 \times (L^2 \times H \times h)^{0.673}$ Where (L) is length in m = clear distance between piers (H) is height of radial gate in m = FRL - Sill level + 0.15 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 97.9% of computed weight of 1 set</p>	Tonne	169200.00
2	<p>Design, fabrication, supply, erection, testing and commissioning of radial gate consisting of skin plate, stiffeners, horizontal girders, sector arms, trunnion assemblies, tie beam, pulley supports, bracings, rubber seals, clamps etc., with all accessories for spillway including cost of all materials, machinery, labour, cutting, bending, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Weight of 1 spillway gate in tonnes $= 0.0710 \times (L^2 \times H \times h)^{0.673}$ Where, (L) is length in m = clear distance between piers (H) is height of radial gate in m = FRL - Sill level + 0.15 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 92.5% of computed weight of 1 gate</p>	Tonne	213500.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
3	<p>Design, fabrication, supply, erection, testing and commissioning of electrically operated rope drum hoist with deck bridge of adequate capacity consisting of base frames, rope drums, connecting shaft, gear system, brake system, electric motor, wire ropes, gate position indicator, manual operation arrangement etc., with all accessories for spillway radial gate including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, greasing, providing hand railing and approach staircase with gate to hoist platform, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note:</p> <p>1. Hoist capacity in t including 25 % reserve capacity = $1.5 \times \text{Wt. of gate}$ (Hoist capacity shall be rounded off to next 10 tonne) Weight of hoist with all accessories: 175 kg. per tonne capacity of hoist</p> <p>2. Quantity of structural steel = 39.2% of computed weight of 1 hoist</p>	Tonne	52000.00
4	<p>Design, fabrication, supply, erection and commissioning of 1 metre wide catwalk connecting spillway piers / abutments at trunnion platform level including cost of all materials, machinery, labour, cutting, aligning welding, anchoring, finishing, cleaning, applying one coat of zinc rich epoxy primer and two coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note:</p> <p>1. Weight of catwalk : 300 kg. per metre length of catwalk</p> <p>2. Quantity of structural steel = 95.6% of computed weight per metre length</p>	RM	30000.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
5	<p>Design, fabrication, supply, erection and commissioning of embedded parts consisting of sill beam, slide tracks, seal seats, guide rails, dogging sets for storage of stop log elements etc., with all accessories for spillway stop log gate elements including cost of all materials, machinery labour, cutting, aligning, welding, anchoring, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of 1 set embedded parts in tonnes $= 0.0025 \times (L^2 \times H \times h)^{0.716}$ Where (L) is length = clear distance between piers + 0.65 m (H) is total height of stop log gate in m = FRL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 83.8% of computed weight of 1 set</p>	Tonne	281200.00
6	<p>Design, fabrication, supply, erection, testing and commissioning of vertical lift sliding type all interchangeable (except bottom element) stop log gate elements consisting of skin plate, horizontal and vertical girders, stiffeners, lifting pins, bronze padded slide blocks, guide shoes, rubber seals, clamps etc., with all accessories for spillway including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats cold applied coal tar epoxy paint, seal fixing etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Total wt of 1 set stoplog elements in t $= 0.0553 \times (L^2 \times H \times h)^{0.716}$ Where (L) is length = Clear distance between piers + 0.65 m. (H) is total height of stoplog gate in m = FRL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 99.3% of computed weight of 1 set</p>	Tonne	141800.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
7	<p>Design, fabrication, supply, erection, testing and commissioning of automatic lifting beam with all accessories for handling, lowering and lifting of spillway stop log gate elements including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and two coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other components / materials.</p> <p>Note:</p> <p>1. Weight of lifting beam in tonnes $= 0.02212 \times (L^2 \times H \times h)^{0.716} / n$ Where (L) is length = clear distance between piers + 0.65 m (H) is total height of stoplog gate in m = FRL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FRL - Sill level (n) is number of gate elements in 1 set 2. Quantity of structural steel = 94.1 % of computed weight of 1 No.</p>	Tonne	168000.00
8	<p>Design, fabrication, supply, erection, testing and commissioning of adequate capacity Class - II type moving gantry crane consisting of rail mounted gantry frame, top platform with hand railing, long / cross travel arrangements, rope drums, gear systems, electric motors, electro-magnetic brake system, cabin, control panel, wire rope, ladder, motorised cable reeling drum etc., with all accessories for operating spillway stop log gate elements and river sluice / canal sluice emergency gates including cost of all materials, machinery, labour, cutting, bending, aligning, anchoring, welding, finishing, cleaning, greasing, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note:</p> <p>1. Capacity of gantry crane in tonnes including 25% reserve capacity $= 2.5 \times (\text{Weight of 1 set of stop log gate} / \text{number of elements})$ (Hoist capacity shall be rounded off to next 5 tonne) Weight of moving gantry crane: 0.25 tonne per tonne capacity of gantry 2. Quantity of structural steel = 70.4% of computed weight of gantry</p>	Tonne	277100.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
9	<p>Design, fabrication, supply, erection and commissioning of rail track using 45 kg / m standard rails on spillway bridge for movement of gantry crane for handling and operating spillway stop log gate elements / river sluice / canal sluice emergency gate including cost of all materials, machinery, labour, aligning, anchoring, welding, cleaning, applying one coat of zinc rich epoxy primer and two coats of cold applied coal tar epoxy paint for buffers and rail supporting plates etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Weight of gantry track including fixtures: 100 to 105 kg / RM of track. (Weight per metre includes rails with fixtures on both sides) 2. Quantity of structural steel = 5.3% of computed weight of track</p>	RM	8000.00
10	<p>Design, fabrication, supply, erection and commissioning of embedded parts (without groove liner) consisting of sill beam, wheel tracks, seal seats, guide rails, breast wall liner (upto one vent height plus 1 m above the roof of vent) etc., with all accessories for river / canal sluice service gate including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of 1 set embedded parts in tonnes $= 0.0444 \times (L^2 \times H \times h)^{0.659}$ Weight of breast wall lining: 250 kg / sqm of breast wall Where (L) is length = Clear vent opening in m + 0.70 m. (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 85.0% of computed weight of 1 set</p>	Tonne	209800.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
11	<p>Design, fabrication, supply, erection and commissioning of embedded parts (with groove liner upto breast wall level) consisting of sill beam, wheel tracks, seal seats, guide rails, breast wall liner (upto one vent height plus 1 m above the roof of vent) etc., with all accessories for river / canal sluice service gate including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of 1 set embedded parts in tonnes $= 0.0444 \times (L^2 \times H \times h)^{0.659}$ Weight of breast wall lining: 250 kg / sqm of breast wall Weight of groove liner: 200 kg. / sqm of groove lining Where (L) is length = clear vent opening in m + 0.70 m. (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 90.5% of computed weight 1 set</p>	Tonne	167700.00
12	<p>Design, fabrication, supply, erection and commissioning of vent liner using 20 mm thick plates with stiffeners and anchors for river sluice / canal sluice vents including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat zinc rich epoxy primer and four coats cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Weight of vent liner including stiffeners / anchors : 200 kg. / sqm area. 2. Quantity of structural steel = 100.0% of computed weight</p>	sqm	25200.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
13	<p>Design, fabrication, supply, erection, testing and commissioning of fixed wheel type vertical lift service gate consisting of skin plate, vertical and horizontal girders, wheels, stiffeners, lifting brackets, guide rollers, ballast blocks, teflon claded rubber seals etc., with all accessories for river sluice /canal sluice vent including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats cold applied coal tar epoxy paint, seal fixing etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of 1 gate in tonnes (including ballast) $= 0.0888 (L^2 \times H \times h)^{0.659}$ Where (L) is length = clear vent opening in m + 0.70 m. (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 47.5% of computed weight of 1 gate</p>	Tonne	153500.00
14	<p>Design, fabrication, supply, erection, testing and commissioning of adequate capacity rope drum hoist or Screw gearing Hoist consisting of hoist platform, rope drum, gear system, electric motor, electro-magnetic brake system, hand operation assembly, control panel, wire rope, pulleys, ladder etc., with all accessories for operating river sluice / canal sluice service gate including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, greasing, applying one coat zinc chromate red oxide primer and three coats of approved synthetic enamel paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Capacity of hoist in tonnes including 25% reserve capacity $= 2.5 \times \text{Weight of gate including ballast}$ (Hoist capacity shall be rounded off to next 5 tonne) Weight of hoist with all accessories: 250 kg. per tonne capacity of hoist 2. Quantity of structural steel = 34.0% of computed weight of 1 hoist</p>	Tonne	64000.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
15	<p>Design, fabrication, supply, erection and commissioning of embedded parts (without groove liners) consisting of sill beam, wheel tracks, seal seats, guide rails, breast wall liner upto 1m height above the roof of vent etc., with all accessories for river / canal sluice emergency gate including cost of all materials, machinery, labour, cutting, aligning, welding anchoring, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other components / materials.</p> <p>Note: 1. Wt of 1 set embedded parts in tonnes $= 0.0444 \times (L^2 \times H \times h)^{0.659}$ Weight of breast wall lining: 250 kg per sqm of breast wall Where (L) is length = clear vent opening in m + 0.70 m (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 87.0% of computed weight of 1 set</p>	Tonne	227700.00
16	<p>Design, fabrication, supply, erection and commissioning of embedded parts (with groove liners) consisting of sill beam, wheel tracks, seal seats, guide rails, breast wall liner (upto 1 m above the roof of vent), groove liner upto breast wall level etc., with all accessories for river / canal sluice emergency gate including cost of all materials, machinery labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of 1 set embedded parts in tonnes $= 0.0600 \times (L^2 \times H \times h)^{0.659}$ Weight of breast wall lining: 250 kg / sqm of breast wall Weight of groove liner: 200 kg / sqm of groove lining Where (L) is length = Clear vent opening in m + 0.70 m (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 92.7% of computed weight of 1 set</p>	Tonne	173300.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
17	<p>Design, fabrication, supply, erection, testing and commissioning of fixed wheel type vertical lift emergency gate consisting of skin plate, horizontal and vertical girders, wheels, stiffeners, lifting brackets, guide rollers, ballast blocks, teflon claded rubber seals etc., with all accessories for river sluice / canal sluice vent including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of 1 gate in tonnes (including ballast) $= 0.0888 (L^2 \times H \times h)^{0.659}$ Where (L) is length = Clear vent opening in m + 0.70 m. (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 46.7% of computed weight of 1 gate.</p>	Tonne	152800.00
18	<p>Design, fabrication, supply, erection, testing and commissioning of automatic lifting beam with all accessories for handling, lowering and lifting of river sluice / canal sluice emergency gate including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and two coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Weight of lifting beam in tonnes $= 0.0090 \times (L^2 \times H \times h)^{0.659}$ Where (L) is length = Clear vent opening in m + 0.70 m (H) is height of gate in m = Clear vent height in m + 0.30 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 76.3% of computed weight of 1 beam</p>	Tonne	225800.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
II	GATES AND HOISTS FOR BARRAGE:		
19	<p>Design, fabrication, supply, erection and commissioning of embedded parts consisting of sill beam, wheel tracks, seal seats, guide rails etc., with all accessories for vertical lift barrage gate including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other components / materials.</p> <p>Note: 1. Wt of 1 set of embedded parts in tonnes $= 0.0055 (L^2 \times H \times h)^{0.716}$ Where (L) is length = Clear distance between piers in m + 1 m. (H) is total height of gate in m = FRL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 82.3% of computed weight of 1 set</p>	Tonne	275600.00
20	<p>Design, fabrication, supply, erection, testing and commissioning of fixed wheel type vertical lift gate consisting of skin plate, vertical and horizontal girders, wheels, stiffeners, lifting brackets, guide shoes, rubber seals etc., with all accessories for barrage including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Weight of 1 gate in tonnes = $0.0335 (L^2 \times H \times h)^{0.716}$ Where (L) is length = Clear distance between piers in m + 1 m (H) is total height of gate in m = FRL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FRL - Sill level 2. Quantity of structural steel = 96.7% of computed weight of 1 gate</p>	Tonne	155200.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
21	<p>Design, fabrication, supply, erection and commissioning of structural steel hoist bridge consisting of columns, beams, bracings, stiffeners, ties, chequered plate covering, hand railing, ladder etc., with all other accessories for supporting rope drum hoist for operating barrage gates including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Columns (with bracings / anchors / stiffeners): 400 kg. per metre height Beams (with cross beams / stiffeners): 400 kg. per metre span Railing / Chequered plate / Ladder etc: 10 % of wt columns / beams Weight proposed includes all columns / beams for 1 hoist. 2. Quantity of structural steel = 97.8% of computed weight for 1 span.</p>	Tonne	133600.00
22	<p>Design, fabrication, supply, erection, testing and commissioning of adequate capacity rope drum hoist consisting of hoist platform, rope drums, shafts, pulleys, gear system, electric motor, electro-magnetic brake system, manual operation assembly, gate position indicator, control panel, wire rope etc., with all accessories for operating vertical lift roller gate for barrage including cost of all materials, machinery, labour, cutting, bending, aligning, anchoring, welding, finishing, cleaning, greasing, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Capacity of hoist in t with 25 % reserve capacity = $1.5 \times \text{Wt of gate}$. (Hoist capacity shall be rounded off to next 10 tonne) Weight of hoist with all accessories: 100 kg per tonne capacity of hoist 2. Quantity of structural steel = 12.4% of computed weight for 1 hoist.</p>	Tonne	49600.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
III	AUTOMATIC OUTFLOW REGULATING GATE FOR BARRAGE / ESCAPE		
23	<p>Design, fabrication, supply, erection and commissioning of embedded parts consisting of sill beam, wall plates, seal seats, first stage anchors, anchor girders, anchor bars, trunnion supports etc., with all accessories for outflow regulating automatic gates for barrage/escape including cost of all all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Weight of 1 set embedded parts in tonnes $= 0.046 \times (L^2 \times H \times h)^{0.673}$ Where (L) is length = Clear distance between piers in m. (H) is height of gate in m = FSL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 94.0% of computed weight for 1 set.</p>	Tonne	206000.00
24	<p>Design, fabrication, supply, erection, testing and commissioning of automatic outflow regulating gate and fulcrum assembly consisting of skin plate, stiffeners, horizontal girders, trunnion assemblies, gate bracket, base plate, rolling surface assembly, link brackets, link assembly, rubber seals, seal clamps etc., with all accessories for barrage / escape including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of gate & fulcrum assembly in tonnes $= 0.1325 \times (L^2 \times H \times h)^{0.673}$ Where (L) is length = Clear distance between piers in m. (H) is height of gate in m = FSL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 94.2% of computed weight for 1 gate.</p>	Tonne	165500.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
25	<p>Design, fabrication, supply, erection, testing and commissioning of hoisting cum damping system consisting of low level horizontal lever link, low level long actuating lever, high level vertical lever link, high level short actuating lever, high level hoisting bracket, axle for lever system, friction shoes, supporting box for shoes, rack assembly, ratchet pawl, supporting structure, bracket plate etc., with all accessories for outflow regulating automatic gate including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Weight of hoisting cum damping system in tonnes $= 0.0695 \times (L^2 \times H \times h)^{0.673}$ Where (L) is length = Clear distance between piers in m. (H) is height of gate in m = FSL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 94.2% of computed weight for 1 gate.</p>	Tonne	227600.00
IV	GATES AND HOISTS FOR CANAL REGULATORS		
26	<p>Design, fabrication, supply, erection and commissioning of embedded parts consisting of sill beam, wall plates, first stage anchors, anchor girders, anchor bars, trunnion supports, wire rope / pulley supports etc., with all accessories for canal regulator radial gates including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Weight of 1 set embedded parts in tonnes $= 0.092 \times (L^2 \times H \times h)^{0.673}$ Where (L) is length = Clear distance between piers in m (H) is height of gate in m = FSL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 95.1% of computed weight for 1 set.</p>	Tonne	169700.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
27	<p>Design, fabrication, supply, erection, testing and commissioning of radial gate consisting of skin plate, stiffeners, horizontal girders, sector arms, trunnion assemblies, tie beam, pulley supports, bracings, rubber seals, seal clamps etc., with all accessories for canal regulator including cost of all materials, machinery, labour, cutting, bending, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Weight of 1 radial gate in tonnes $= 0.1685 \times (L^2 \times H \times h)^{0.673}$ Where (L) is length = Clear distance between piers in m (H) is height of gate in m = FSL - Sill level + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 94.3% of computed weight for 1 gate</p>	Tonne	171500.00
28	<p>Design, fabrication, supply, erection, testing and commissioning of adequate capacity electrically operated rope drum hoist consisting of hoist platforms, rope drums, connecting shaft, gear system, electric motor, electro-magnetic brake system, control panel, pulleys, wire rope, manual operation system, railing, ladder etc., with all accessories for operating canal regulator radial gate including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning ,greasing, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Capacity of hoist in t with 25 % reserve capacity $= 2.00 \times \text{Wt of gate}$ (Hoist capacity shall be rounded off to next 5 tonne) Weight of hoist with all accessories: 300 kg per tonne capacity of hoist 2. Quantity of structural steel = 66.4% of computed weight for 1 hoist.</p>	Tonne	72300.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
29	<p>Design, fabrication, supply, erection, testing and commissioning of adequate capacity manually operated rope drum hoist consisting of hoist platforms, rope drums, connecting shaft, gear system, brake system, pulleys, wire rope, manual operation system, railing, ladder etc., with all accessories for operating canal regulator radial gate including cost of all materials, machinery, labour, cutting, aligning anchoring, welding, finishing, cleaning, greasing, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Capacity of hoist in t with 25 % reserve capacity $= 2.00 \times \text{Wt of gate}$ (Hoist capacity shall be rounded off to next 5 tonne) Weight of hoist with all accessories: 275 kg. per tonne capacity of hoist 2. Quantity of structural steel = 66.4% of computed weight for 1 hoist.</p>	Tonne	66200.00
30	<p>Design, fabrication, supply, erection and commissioning of embedded parts (with top seal seat) consisting of sill beam, wheel tracks, seal seats, guide rails, groove lining upto top etc., with all accessories for vertical lift roller gate for canal escape / regulator including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of 1 set of embedded parts in tonnes $= 0.1332 \times (L^2 \times H \times h)^{0.659}$ Where (L) is length = Clear vent width in m + 0.50 m (H) is height of gate in m = Clear vent height in m + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 95.4% of computed weight for 1 set.</p>	Tonne	184600.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
31	<p>Design, fabrication, supply, erection, testing and commissioning of fixed wheel type vertical lift gate (with top seal) consisting of skin plate, stiffeners, horizontal and vertical girders, wheels, guide rollers, rubber seals etc., with all accessories for canal escape / regulator vent including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note:</p> <p>1. Weight of 1 gate in tonnes = $0.0888 (L^2 \times H \times h)^{0.659}$ Where (L) is length = Clear vent width in m + 0.50 m (H) is height of gate in m = Clear vent height in m + 0.20 m (h) is head of water above sill of gate in m = FSL - Sill level</p> <p>2. Quantity of structural steel = 92.1% of computed weight for 1 gate</p>	Tonne	177400.00
32	<p>Design, fabrication, supply, erection, testing and commissioning of adequate capacity screw type hoist consisting of supporting structure, platform, railing, ladder etc., with all accessories for operating canal escape / regulator gate including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, greasing, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note:</p> <p>1. Capacity of hoist in t with 25% reserve capacity = $2.50 \times \text{Wt of gate}$. (Hoist capacity shall be rounded off to next 1 tonne) Weight of hoist with all accessories: 300 kg per tonne capacity of hoist</p> <p>2. Quantity of structural steel = 61.2% of computed weight for 1 hoist.</p>	Tonne	46500.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
33	<p>Design, fabrication, supply, erection and commissioning of embedded parts consisting of sill beam, wheel tracks, seal seats, guide rails, gate groove liners etc., with all accessories for canal escape / regulator stop log gate including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of 1 set of embedded parts in tonnes $= 0.0665 \times (L^2 \times H \times h)^{0.716}$ Where (L) is length = Clear distance between piers in m + 0.50 m. (H) is total height of stoplog gate in m = FSL - Sill level + 0.30 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 95.9% of computed weight for 1 set</p>	Tonne	179400.00
34	<p>Design, fabrication, supply, erection, testing and commissioning of sliding type interchangeable stop log gate elements consisting of skin plate, stiffeners, horizontal and vertical girders, lifting hooks, bronze padded slide blocks, guide shoes, rubber seals etc., with all accessories for canal regulator vent including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coats of zinc rich epoxy primer and three coats of cold applied coal tar seal fixing etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of 1 set of stoplog elements in tonnes $= 0.0995 (L^2 \times H \times h)^{0.716}$ Where (L) is length = Clear distance between piers in m + 0.50 m (H) is total height of stoplog gate in m = FSL - Sill level + 0.30 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 98.5% of computed weight for 1 gate.</p>	Tonne	162600.00

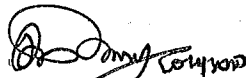
Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
V	GATES AND HOISTS FOR PUMP HOUSE INTAKE		
35	<p>Design, fabrication, supply, erection and commissioning of embedded parts consisting of liners for trash rack grooves (for coarse and fine screens) with all accessories for pump house intake structure including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of 1 set of embedded parts in tonnes = 100 to 125 kg / m height 2. Quantity of structural steel = 100.0% of computed weight for 1 set.</p>	Tonne	172900.00
36	<p>Design, fabrication, supply, erection and commissioning of trash racks consisting of a number of panels of suitable height with vertical trash bars welded to structural steel frame at wider interval and provided with weld mesh frame for pump house intake structure including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of trash rack panels for 1 vent in t = $0.0375 \times (L^2 \times H \times h)^{0.716}$ Where (L) is length = Clear distance between piers in m + 0.20 m (H) is total height of trash rack panels in m (h) is head of water above sill of trash rack in m = FSL - Sill level 2. Quantity of structural steel = 100.0% of computed weight</p>	Tonne	118700.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
37	<p>Design, fabrication, supply, erection and commissioning of embedded parts consisting of sill beam, wheel tracks, seal seats, guide rails, gate groove liners etc., with all accessories for pump house intake stop log gate including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying one coat zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of 1 set of embedded parts in tonnes $= 0.0665 \times (L^2 \times H \times h)^{0.716}$ Where (L) is length = Clear distance between piers in m + 0.50 m (H) is total height of stoplog gate in m = FSL - Sill level + 0.30 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 95.9% of computed weight for 1 set.</p>	Tonne	179400.00
38	<p>Design, fabrication, supply, erection, testing and commissioning of sliding type stop log gate consisting of skin plate, horizontal and vertical girders, lifting hooks, bronze padded slide blocks, stiffeners, guide shoes, rubber seals etc., with all accessories for pump house intake vent including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coats of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Wt of 1 stoplog gate in tonnes $= 0.0995 (L^2 \times H \times h)^{0.716}$ Where (L) is length = Clear distance between piers in m + 0.50 m (H) is total height of stoplog gate in m = FSL - Sill level + 0.30 m (h) is head of water above sill of gate in m = FSL - Sill level 2. Quantity of structural steel = 98.5% of computed weight for 1 gate.</p>	Tonne	162600.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
39	<p>Design, fabrication, supply, erection and commissioning of electrically operated mono-rail hoist assembly consisting of electric motor, rope drum, gear system, wire rope with lifting attachment, festoon cabling etc., with all accessories for operating pump house stop-log gate including cost of all materials (excluding providing mono-rail hoist supporting structure and mono-rail with fixtures), machinery, labour, cleaning, greasing etc., complete as per specifications and approved drawings with all leads and lifts.</p> <p>Note: 1. Hoist capacity = 1.50 x weight of stop-gate</p>	Tonne	51800.00
40	<p>Design, fabrication, supply, erection and commissioning of structural steel hoist supporting structure consisting of columns, cross beams, bracings, stiffeners, mono-rail with fixtures etc., with all accessories for electrically operated monorail rope drum hoist for operating pump house intake vertical lift gates including cost of all materials, machinery, labour, cutting, aligning, anchoring, welding, finishing, cleaning, applying two coats of zinc chromate red oxide primer and three coats of synthetic enamel paint etc., complete as per specifications and approved drawings with lead upto 1 km and all lifts for structural steel components and all leads and lifts including packing / forwarding charges for other materials.</p> <p>Note: 1. Columns with bracings / anchors / stiffeners: 150 kg per metre height. Weight proposed above is for each intake vent 2. Mono rail beam with cross beams : 100 kg per metre length 3. Quantity of structural steel = 97.8% of computed weight for 1 span.</p>	Tonne	133600.00

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
41	Design, fabrication, supply, erection, testing and commissioning EOT crane consisting of double girder box type construction, rail mounted end carriages with long and cross travel arrangement, main and auxiliary hoists of specified capacity, rails, pendant control, gear boxes, electric motors, brakes, rope drums, wire ropes, sheaves, end buffer stoppers, pendant operated DSL bus bars with all accessories for main and auxiliary hoists for handling pumps and accessories in pump house including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, greasing, applying two coats of zinc chromate red oxide primer and three coats of synthetic enamel paint etc., complete as per specifications and approved drawings with all leads and lifts. Note: 1. EOT crane Main hoist capacity = 1.25 x Maximum lifting load in tonne 2. EOT crane auxiliary hoist capacity = 10 % of main hoist 3. Rate for EOT crane shall be based on capacity of main hoist	Tonne	207800.00
NOTE:			
1	All notes under General Notes on Schedule of Rates and Notes on lead, lift, loading and un-loading charges are applicable to Gate / Hoist and Allied Works also to the extent they are relevant.		
2	All materials / bought out components for embedded parts, gates, hoists and allied works shall conform to relevant Indian standards / technical specifications and approved drawings.		
3	The basic rates are inclusive of preparation of designs / drawings / bill of materials etc., as per specifications and other technical data including revisions.		
4	The basic rates are inclusive of cost of all materials, machinery, labour, fabrication, erection, commissioning and testing of gates, hoists and other related components as per technical specifications.		
5	The basic rates are inclusive of rehandling at fabrication and erection sites.		
6 a	The basic rates are inclusive of 1 km lead and all lifts for structural steel and all leads and lifts for other materials. For working out additional lead charges for structural steel 1 km lead included in basic rate shall be deducted from total lead. The quantity of structural steel for working out additional lead, loading and un-loading charges shall be as per Note: 2 under each item.		
6 b	The basic rates are inclusive of 3 percent provision towards cost of packing, forwarding and transportation of all materials other than structural steel from their source of supply upto work site. No lead charges shall be added for materials other than structural steel.		
7	Unless otherwise specified the basic rates are inclusive of standard finish required for all the fabricated and bought out gate and hoist components.		

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
8	The basic rates are inclusive of preparatory works such as rectification of damages, repairing shop painting, cleaning, positioning and anchoring first stage embedments, cleaning surface for field painting etc.		
9	The basic rates are exclusive of cost of river diversion dewatering, desilting etc.		
10	Unless otherwise specified , the basic rates for all items are on per tonne basis. The rate per set or per number shall be worked out on the basis of rate per tonne and the tonnage computed as per detailed designs or as per empirical formulae furnished in the " Note " under each item.		
11	Minimum dry film thickness for zinc rich epoxy primer paint and coal tar epoxy paint shall be 40 microns per coat and 100 microns per coat respectively.		
12	The Basic Rate adopted under this Head, "Annexure-XII - Basic Rates of Gate / Hoist and Allied Works for Irrigation Projects" is exclusive of all taxes and GST.		



**Engineer-in-Chief, WRD &
 Chief Engineer (General), PWD,
 Chennai-5 (Member)**


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ANNEXURE-XIII

BASIC RATES OF HIRE CHARGES FOR PLANTS & MACHINERIES

Sl. No.	Description of Machineries	Unit	Basic Rate approved for the year 2020-2021 (w.e.f. 20.04.2020)
1	Pumping charges of concrete including hire charges of pump, piping work and accessories etc.	cum.	210.00
2	Carriage of concrete by Transit Mixer	Km. / cum.	30.00
3	Cutting Saw Machine	Day	1350.00
4	Concrete Joint Cutting Machine	Day	900.00
5	Air Compressor 250 cfm. with two leads for Pneumatic Cutters / Hammers	Day	1600.00
6	Excavation of diaphragm wall by Mechanical Grab	Day	1300.00
7	Hire and running charges of Bentonite Pump	Day	3500.00
8	Hire and running charges of Crane 20 Tonne capacity	Day	7000.00
9	Hire and running charges of Crane 40 Tonne capacity	Day	8000.00
10	Hire and running charges of Crane 80 Tonne capacity	Day	15000.00
NOTE:			
1	The Basic Rate adopted under this Head, "Annexure-XIII - Basic Rates of Hire Charges for Plants and Machineries" is exclusive of all taxes and GST.		
2	The above hire charges includes cost of services of operating staff, cost of lubricating oil, diesel / petrol / Kerosene and other consumables for running the plant and machinery.		
3	The hire charges of plant machinery on per day basis are for single shift of EIGHT working hours.		


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Chennai-5 (Member)


 20/4/20